

BADGER STATE

Smoke Signals

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 21st Year • Single Copy: \$1

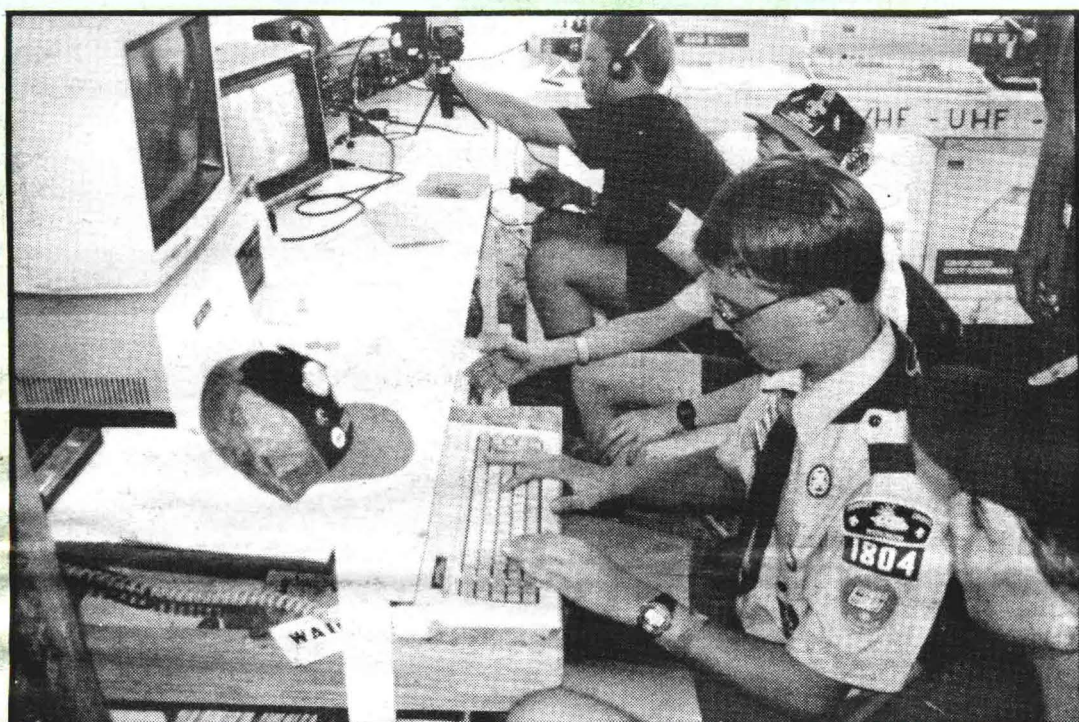
Vol. 21 No. 2 - 242nd Consecutive Monthly Issue - Baraboo, Wisconsin - February 1990

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Ham Radio at the National Scout Jamboree



Last summer, Gene Santoski, K9UTQ, who is also active as a leader in the Boy Scouts in Wisconsin Rapids, attended the National Jamboree at Ft. A.P. Hill, VA. Above is Gene's son, talking on packet to another Scout at the Jamboree. Read Gene's story, starting on page 6 of this issue.

1990 Wisconsin QSO Party

Sponsored by the West Allis Radio Amateur Club

1800Z March 10 - 0100Z March 11, 1990

Rules and Summary Sheet on Pages 11 and 12

ARRL Files Proposal for Automatic RTTY and Data Operation

On December 12, 1989, American Radio Relay League Counsel Chris Imlay, N3AKD, filed a petition for rule making with the Federal Communications Commission, seeking the adoption of rules to permit limited HF RTTY and data communication under automatic control.

The 24-page petition draws on the experience gained during the past 2 1/2 years under the Special Temporary Authority (STA) granted to the League in mid-1987, permitting a limited number of packet radio stations (known as SKIPNET) to operate under automatic control on specific HF frequencies, forming an organized "long haul" message forwarding network. The League's conclusion, based on this experience, is that the desirability of automatic operation on the HF bands has been firmly established and, in fact, it is now an integral part of the normal amateur radio activity in all International Telecommunications Union (ITU) regions.

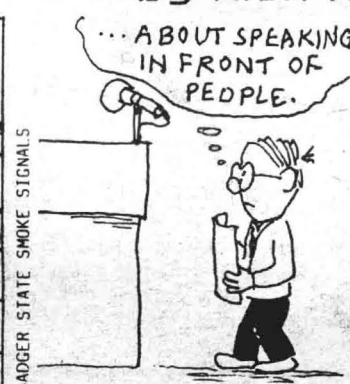
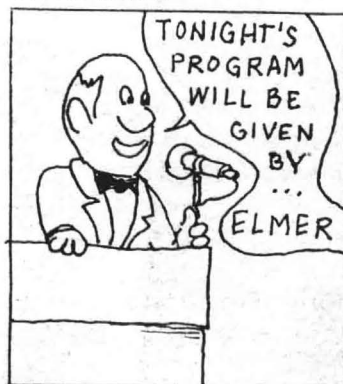
The League's proposal seeks inclusion of automatically-controlled AMTOR and Baudot as well as data modes. In the petition, ARRL says, "The feasibility of automatically controlled operation on AMTOR has been demonstrated by US amateurs operating under special temporary author-

(Please turn to page 8)

ON THE INSIDE

Club Meetings-----	2
The Test Point-----	3
Wisconsin Nets Association-----	4
Here and There-----	5
Repeater Profiles-----	9
Northern Wisconsin Repeater Club---	9
SAREX Blasts Off in 1990-----	10
Morse Telegraph Club Nets-----	12
The Communicator-----	13
Riverland Amateur Radio Club-----	14
Eau Claire Amateur Radio Club-----	15
220-222 MHz Rules Proposed-----	15
The Wisconsin Packeteer-----	17
Yellow Thunder Amateur Radio Club--	19

ELMER



by Rich Regent, K9GDF

Swapfests and other Social Events

SATURDAY, FEBRUARY 24, 1990. The Fox Cities ARC will sponsor HAMFEST 1990 at Sabre Lanes, 1330 Midway Rd., Menasha, Wisconsin. Electronic equipment, radios, antennas, and components for hams, computer hobbyists, CBers, and experimenters! Amateur Radio Examinations (see testpoint), free parking, dealers on site, admission \$2.00, Tables \$5.00 at the door or in advance. Contact Don Baker, NB9J, 621 W. 7th St., Kaukauna, WI 54130. (414) 766-3886. (see also ad in last months BSSS)

SATURDAY, FEBRUARY 24, 1990. Midwinter Madness - Hobby Electronics Show, sponsored by the Robbinsdale ARC. Located in the Medina Ballroom, Hamel, MN. (On State Highway 55, 4 miles West of 494 20 miles West of downtown Minneapolis. Amateur Exams (see testpoint). Contact: Bob at (612) 425-2424 (days) or (612) 545-1059 (nights)

SUNDAY, MARCH 25, 1990. Lamarsfest at Grayslake, IL. Contact Lamars, Box 751, Libertyville, IL 60048.

SATURDAY, MARCH 31, 1990. Rockford Hamfest 90, held at Teamsters' Hall, 5533-11th ST., (highway 251S), Rockford, IL. Contact: Rockford Amateur Radio Association, P.O. Box 10003, Rockford, IL 61131.

SUNDAY, APRIL 8, 1990. Madison swapfest sponsored by the Madison Area Repeater Association at the Dane County Expo Center, Forum Building, Madison WI. Contact: MARA, P.O. box 8890, Madison, WI 53708-8890. (608)-249-7579 (see ad last page.)

SATURDAY, MAY 5, 1990. The Twelfth Annual Swapfest of the Ozaukee Radio Club will be held at the Circle B Recreation Center in Cedarburg, WI. Contact: ORC Swap, N5415 Crystal Springs Ct., Fredonia, WI 53021. (414) 692-2329

SATURDAY, MAY 12, 1990. Lakeshore Hamfest, Manitowoc, WI sponsored by Mancorad Radio Club. Manitowoc County Expo, intersection of hwy 42-151 and I-43 on county hwy "R", follow signs to center. Contact: Mancorad Radio Club, P.O. Box 204, Manitowoc, WI 54221-0204. Call "Red" (414) 684-9097 (days) or "Lou" (414) 682-2557 (nights).

JUNE 8-10, 1990. ARRL National Convention, Kansas City, MO.

SATURDAY, JULY 7, 1990. South Milwaukee ARC Swapfest at the American Legion Park, Shepard Ave., Oak Creek, WI. Contact: SMARC, P.O. Box 102, Milwaukee, WI 53172. (see ad last page.)

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings

BADGER AMATEUR RADIO SOCIETY
(W9YT - UNIVERSITY OF WISCONSIN - MADISON)
Monthly while school in session - 2nd Wednesday - 7:30 p.m. - B-314, Electrical Engineering Building.

CENTRAL WISCONSIN RADIO AMATEURS, LTD.
(STEVENS POINT)
Second Wednesday.

EAU CLAIRE AMATEUR RADIO CLUB
2nd Tuesday - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)
First and third Tuesdays - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

FOX CITIES AMATEUR RADIO CLUB
Third Monday - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 766-3886. Winter banquet: January 13, 1990.

GREATER MILWAUKEE DX ASSOCIATION
Fourth Monday of the month at 7:30 p.m. Contact Jerry Scherkenbach, N9AW, at (414) 481-8831 for meeting location.

GREEN BAY MIKE AND KEY CLUB
Second Thursday - Red Cross Bldg., corner Danz and Deckner, Green Bay.

GREEN FOX AMATEUR RADIO CLUB
Third Monday - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

KETTLE MORaine RADIO AMATEURS
Second Friday, 7:30 p.m. at the Waukesha County Technical College, Campus Science Building, Room 102. Talk-in on the N9KS 147.39 repeater.

LAKESHORE RPTR. ASSN.
Last Tuesday, Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

MADISON AREA REPEATER ASSOCIATION
1990 meeting dates: Mondays March 12, September 10, & November 12.

MANITOWOC COUNTY RADIO AMATEURS
Directors Meeting: First Wednesday.
General meeting: Second Wednesday.
Both meetings held at 7:30 p.m. in the basement, Manitowoc City Hall, 817 Franklin St., Manitowoc.

MENOMONEE FALLS AMATEUR RADIO CLUB
Last Tuesday - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB
Fourth Thursday - Wauwatosa Savings and Loan, 7500 W. State St. (November on the third Thursday. No meetings in July, August and December.) Meetings begin at 7:00 pm.

NORTHERN WISCONSIN RADIO CLUB
4th Tuesday - 7:30 p.m., Sept. through April. Peppermill Restaurant, Thunderbird Mall North, Menomonie, WI. Guests welcome.

NORTHWOODS ARC (RHINELANDER WI)
Third Tuesday. Doors open at 7:00 p.m. Meeting at 7:30 p.m. South Park School, Rhineland, WI. Talk-in on 146.93/.34. All interested visitors to the Northwoods are welcomed.

OZAUKEE RADIO CLUB
Second Wednesday - 7:30 p.m. - Saukville Community Center.

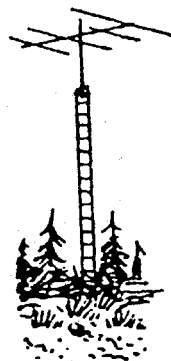
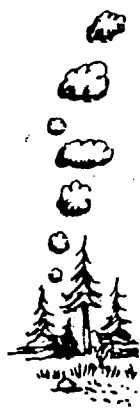
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ADDRESS CHANGES AND CORRECTIONS should be sent to Kenneth A. Ebner, address above.

EDITORIAL MATERIAL, PHOTOGRAPHS, FEATURE ARTICLES, AND EXCHANGE PAPERS should be sent to Jim Romelfanger, address above.

DISPLAY ADS or INQUIRIES REGARDING DISPLAY ADS may be directed to Harry Westlund or Kenneth Ebner, addresses above.

SUBSCRIPTIONS should be sent, with check or money order (do not send cash), to Jim Decker, address above.

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SUBSCRIPTIONS

1 year	(12 issues)	\$8.50
2 years	(24 issues)	\$16.00
3 years	(36 issues)	\$23.00

QCWA - WISCONSIN CHAPTER #55

Contact Robert Halbman, AJ9P, Treasurer, For information about meeting dates or joining QCWA Chapter #55. The Wisconsin Chapter holds Spring and Fall dinner meetings.

QCWA - SOUTHEAST WISCONSIN CHAPTER #162

Meets third Monday monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids Drive, Racine.

RACINE MEGACYCLE CLUB

Second Monday, 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

RIVERLAND AMATEUR RADIO CLUB

First Tuesday - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB

First Tuesday - 7:30 p.m. CST, 8:00 p.m. CDT - Dodge County Sheriff's Dept, 141 N. Main, Juneau WI. ARES net - 146.64 MHz., Monday 7:30 p.m. CST, 8:30 p.m. CDT. 7277 Khz., Saturday 10:30 a.m.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB

Second Tuesday - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB

First Wednesday - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

TAYLOR COUNTY AREA AMATEUR RADIO CLUB (TCAARC)
MEDFORD

Usually the 2nd Thursday of the month at 7:00 PM sharp. Usual location: emergency government meeting room, basement of Sheriff's Annex to Taylor County Courthouse, 2nd and Ogden Sts., Medford, WI. Talk-in on 147.75/15 or 145.27(-600) repeaters. Amateurs & guests are welcome. ARS Net, Wednesday nights at 8:30 PM on 147.75/15. For info call Mike, N9GHZ at (715) 223-3996.

TRI-COUNTY AMATEUR RADIO CLUB

Second Sunday of each month. Meetings are held at 7:00 p.m., at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

WASHINGTON COUNTY AMATEUR RADIO CLUB

Tuesday: ARES/RACES - 7:30 p.m., club meeting - 8:00 p.m., Town of Polk Town Hall, Hwy. 60 and Scenic Dr. Net on 146.13/73 every Monday 7:30 p.m.

WATERTOWN AMATEUR RADIO CLUB

First Thursday of the month at 7:00 p.m., The Watertown Public Library, 100 S. Water St., Watertown, WI

WAUPACA AMATEUR RADIO CLUB

First Saturday in March, June, September and December.

WEST ALLIS RADIO AMATEUR CLUB

Second Tuesday - 8:00 p.m. - St. Francis Savings, 9330 W. Greenfield Ave.

WISCONSIN ASSOCIATION OF REPEATERS

Meetings are held Quarterly, with time and location to be announced. Repeater licensees,

trustees, and sponsors are urged to attend W.A.R. meetings. All interested parties are welcome, as well.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)

First Tuesday - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)

Days rotate: 1990 meeting dates:

Wed. Feb. 14, room 12; Thu. Mar. 15, room 12; Tue. Apr. 17, room 12; Wed. May 16, room 14; Thu. Jun. 14, room 14; Fri. Jul. 10, room 14; Wed. Aug. 15, room 14; Thu. Sep. 13, room 14; Tue. Oct. 16, room 12; Wed. Nov. 14, room 14; Thu. Dec. 13, room 14.

All meeting at the Baraboo Civic Center, Baraboo, WI. Meetings start 7:30 p.m.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other clubs interested in making an interclub visit.

The TEST POINT



The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area. (Underlined are added or changed since last months BSSS.)

February 7, 1990	Milwaukee, WI (MRAC)
February 24, 1990	Madison, WI
February 24, 1990	Menasha, WI
<u>February 24, 1990</u>	<u>Hamel, MN</u>
March 7, 1990	Milwaukee, WI (MRAC)
March 31, 1990	Menomonie, WI
April 7, 1990	Madison, WI
April 4, 1990	Milwaukee, WI (MRAC)
April 14, 1990	Eau Claire, WI
May 2, 1990	Milwaukee, WI (MRAC)
June 6, 1990	Milwaukee, WI (MRAC)
July 13-14, 1990	Eau Claire, WI
September 13, 1990	Eau Claire, WI
November 3, 1990	Menomonie, WI
Monthly, First Sat.	Racine, WI
(except January, July & August)	
Monthly, Last Sat.	Tomahawk, WI
(January thru October only)	
Monthly, Third Sat.	Loves Park, IL
Minnesota tests listed at end of column	

GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walkins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 25¢ SASE if you request one from the ARRL or BSSS. In most cases, forms

can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$4.95 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MENASHA WI - February 24, 1990

Fox Cities ARC - Hamfest "90"

Contact: Larry Siebers, KD9IA, 7077 Weyers Rd., Freedom, WI 54130. (414) 788-3823

MILWAUKEE RADIO AMATEURS' CLUB - MRAC/VEC

1990 examination dates: Feb. 7; Mar. 7; Apr. 4; May 2; June 6.

Tests are Wednesday evenings at 7:00 p.m. at Wauwatosa East High School, north 74th and Milwaukee Avenue. Enter through the southmost entrance on 74th Street. Go to room 256 on the 2nd floor. Please arrive promptly so testing can be completed before 10:00 p.m. Bring along your original license and three (3) good photocopies, plus two forms of identification, such as a driver's license, etc. A pen and \$4.75 for the exam fee is also required. WALKINS are welcome. To register in advance on a 15 cent U.S. post card, print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, 1737 North 116th Street, Wauwatosa, WI 53226, or to Ed Seruga, KE9JJ, 3840 South 43rd Street #21, Milwaukee, WI 53220. Telephones: (414) 774-6999 or (414) 545-6299.

BADGER EXAMINERS (BE) - MILWAUKEE

Unless otherwise noted, examinations are administered beginning at 1:00 p.m. to 3:30 p.m. at St. Nicholas Church basement, 5345 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Walkins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

MENOMONIE, WI (ARRL-VEC)

March 31 and November 3, 1990

Credit Union Bldg., 444 S. Broadway, Menomonie, WI. Contact: Dr. I. King, WF9I, 108 Shorewood Dr., Menomonie, WI 54751. (715) 235-5757.

EAU CLAIRE, WI

Tests will be given on the following dates: April 14, July 13 and 14, and September 13, 1990

The April and September examinations will be given at the Facilities Management Building, The University of Wisconsin, Eau Claire Campus. The July Examinations will be held in conjunction with our Hamfest at the Eau Claire Junior Fair Grounds.

(continued on page 19)

Wisconsin Nets Association Ltd.

WISCONSIN NETS

Net	WNA	Freq.	UTC	CST	Manager
BWN	Yes	3984	1200	0600	KC9CJ
BEN	Yes	3985	1800	1200	WA9W
WSBN	Yes	3985	2330	1730	K9UTQ
WNN	Yes	3723	2400	1800	KA9FVX
WSSN	Yes	3645	0030	1830	N9BDL
WIN/E	Yes	3662	0100	1900	WB9ICH
WIN/L	Yes	3662	0400	2200	W9NGP
NWTN	Yes	34/94	0030	1830	NS9Q
6:30 Net	No	01/61	0030	1830	KA9OMC
Gr. Bay	No	72/12	0245	2045	WB9NRK
			Thu.	Wed.	
RACES	No	3993.5	1815	1215	WC9AAG
		USB Tues. and Thurs.			
RACES	No	3993.5	1400	0800	WA9OAY
		LSB Sunday			

Section Manager's

notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

The Wisconsin QSO Party starts at noon on March 10th. Join the on-the-air fun, meet other Wisconsin amateurs and friends. Give the Wisconsin QSO Party a try; check information on pages 11 and 12 of this issue of Badger State Smoke Signals, in QST Contest Corral, or ask other amateurs for details.

Milwaukee RAC exams on March 7th at 7:00 p.m. in Wauwatosa East High School, reservations with W9JK.

Wisconsin Nets Association meeting is March 10th, details from Chairman WA9W.

Badger Examiners exams March 17th at St. Nicholas Parish in Milwaukee, info from WI9M.

Walk-in exams March 31st at Credit Union Building in Menomonee, info WF9I.

Section Traffic Manager, KC9CJ, who presented 50-year ARRL affiliation award to Green Bay Mike and Key Club, says "Impressive club with commitment and enthusiasm, they made me feel welcome there."

N9BDL of Lake Tomahawk, extremely busy traffic handler during last year, checked into 1,947 various nets, and was net control station an astounding 443 times!

The West Allis RAC has a net every Tuesday when there is no club meeting, at 8:00 p.m. on 145.17 MHz.

Sorry to report Silent Keys Dr. Henry Twelmeyer, KA9PCB, of Wauwatosa, and Phil Laeser, W9ECL, retired from WTMJ (see story elsewhere in this issue).

The Northeast Wisconsin Radio League has new officers: Pres. WF9H; V. Pres. KB9ALN; Sec./Treas. N9BPO; meets first

Wednesdays at 780 Packer Drive in Green Bay, and holds a net Tuesdays on 147.27 MHz.

Thought of the month: No matter what goes wrong, there is always somebody who knew it would.

GLASS ARM REPORT

(Wisconsin Slow Speed Net)

Lee G. Andreas, N9BDL, Net Manager
Route 1, 7600 Highway D East
Lake Tomahawk, WI 54539-9500

The new year is here, and I have not had time to even make a single resolution. I hope you did, and that it is to check into a net more often in 1990. With luck, it be the WSSN.

The year finished with a bang around here. Literally a bang. The XYL fell and broke her arm during one of the nets that I was NCS. It was the shortest net of the year. The cast is off her arm, and things are almost back to normal, if there is such a thing as normal.

As a result of the tumult around this QTH, I have not prepared a summary of the checkins and net control stations for 1989. The total net statistics for 1989 were easy to obtain, and are as follows: Checkins - 1959; Traffic Passed - 565 messages; Time - 5349 minutes (89 hours and 9 minutes).

There have been requests for a net roster over the years and, to make up for the lack of individual performance reports, rosters have been made and should be in the mail by the time this report is in print. The rosters will be sent to all certificated members, and to those who have been regular checkins. Anyone else wishing a roster of the WSSN please send a SASE to the address at the head of this column.

Two regulars are getting close to receiving their net certificate. They are Ade, K9DHR, of Kaukauna, and Army, W9KCN, of Lena, Illinois. To become a member and receive a net certificate, all you have to do is to check into the net 30 times in a three month period. CW net managers keep a record of their checkins, and will usually contact the Section Traffic Manager and the certificate will be sent to you without you having to do a thing. Phone net managers do not keep this record, so you must contact the net manager after your 30 checkins within the three month period, and inform him or her of the fact. There are four statewide CW nets, three statewide single sideband nets, and one local two meter FM net that are affiliated with the Wisconsin Nets Association. It is possible for a ham to receive certificates for all eight of these nets. Herein lies the challenge: I think I am the only one who has all eight; who will be the next ham to get them all? Be the first on your block to get them!

To all the guys and gals who stopped by the WSSN in 1989: THANK YOU for

your participation. And, to the gang who served as net control stations during 1989, double THANK YOU. And, to Dwight, AG9G, who did not miss a turn as NCS in 1989, I owe you a Rolls Royce. Too bad FCC regulations prohibit you from accepting remuneration in cash or in kind.

73, Lee, N9BDL

WISCONSIN INTRASTATE NET/EARLY (WIN/E)

Larry Guthu, WB9ICH, Net Manager
706 West Jennings
New London, WI 54961

Happy New Year! I am glad to welcome you to 1990. I hope that all of you had a good and safe holiday season. I did, and I guess we survived another year's end. I sure don't know where the time goes, but it goes by way too fast for me.

Looking at the stats from this year, compared to last, it looks like WIN has held quite steady in all categories. It looks as though WIN will be staying quite healthy as we enter the '90s; even with the advent of packet radio, it looks as though the CW nets will still flourish.

I would like to say that, as of this writing, we have welcomed two new (or should I say old) members to WIN. They are Wid, W9DM, and Don, K9KSA. We are certainly glad to have you both back and keeping WIN strong and alive. It sure is nice to hear some of those calls that have not been heard for some time active again.

I would like to take time here to thank all those who check in, whether it be 2 or 30 times each month. It is greatly appreciated because, if it were not for you, there would be no net. Again, my sincere thanks, and let's keep WIN/E a strong and viable part of the W.N.A. and the N.T.S.

Here are the top 10 checkins for the last quarter of 1989:

1	N9BDL	88	6	N9IAI	53
2	W9YCV	76	7	W9KCN	48
3	W9CBE	73	8	WB9ICH	47
4	W9DM	67	9	KA9FVX	35
5	W9NGP	55	9	W9KLN	35
			10	K9GDF	34

73, Larry, WB9ICH

WISCONSIN INTRASTATE NET/LATE (WIN/L)

Ed Rice, W9NGP, Net Manager
W-126 Lang Road
Oconomowoc, WI 53066

The last quarter of 1989 brought several changes to the 2200 club. Jim Law, W9CXY, our most frequent 9th region representative, has been off the air because of TVI. We miss him, and hope to hear him

(Please turn to page 16)



HERE and THERE

MR. MILSAP GOES TO DAYTON: Grammy award winner Ronnie Milsap, WB4-KCG, will be the special honored guest of the 1990 Dayton Hamvention. General Chairman Ed Hillman, N8ALN, has announced that Milsap has agreed to be the speaker at the Hamvention Awards Banquet on Saturday evening, April 28.

According to Hillman, Milsap passed word to the Hamvention via manager Don Reeves that he was honored to be invited, and was eager to appear at the banquet. It is understood at this time that he will not be performing, but instead will speak on subjects related to Amateur Radio.

Milsap, who is blind, is an avid Radio Amateur who operates as much as his hectic performing schedule permits. Three years ago, WB4KCG appeared in a series of public service announcements about Amateur Radio that were produced for the American Radio Relay League by Frosty Oden, N6ENV, and Bill Pasternak, WA6ITF.

The appearance of the engaging entertainer promises a night all attending will remember. See you in Dayton!

- The Westlink Report, 12/22/89

:-----:

SORRY WE MISSED YOU at the Mid-Winter Swapfest in Waukesha! Both BSSS Chairman Ken Ebner, K9EN, and BSSS Treasurer Jim Decker, WB9UQT, had schedule conflicts which couldn't be resolved; they both had planned to attend the swapfest. We do all hope to be at the Madison Swapfest on April 8, though, and we hope to see you all then.

:-----:

THE FCC CHICAGO FIELD OFFICE has added a telephone number. In addition to their current number, 312-353-0195, they can now also be reached at 708-298-5171. 708 is a new area code being used in the Chicago area, because prefixes were being used up in the 312 area. The address



YEAH, IT LOOKS LIKE A GROUND, ALLRIGHT--- BUT I HAVE A FEELING IT'LL GIVE YOU A PROBLEM!

Rockford Amateur Radio Association Honors Members

At the annual awards banquet of the Rockford Amateur Radio Association on Jan. 13, 1990, two Rockford Hams were given awards for their contributions to Amateur Radio in the Rockford area. At left is Ham of the Year Paul Klein, K9VJJ. On the right is Zygmunt ("Ziggy") Podgorny, W9MOS, who was named Old Hambone of the Year. The "Old Hambone" is a recent award, made to the older members of the club for their contributions during the later years of Amateur Radio. Paul is usually the photog for the banquet; he had to give up the camera this year!

- Photo and story from Paul Klein, K9VJJ



is: FCC Chicago Field Office, Park Ridge Office Center, Room 306, 1550 Northwest Highway, Park Ridge, IL 60068.

- Excerpted from The ARRL Letter :-----:

PACKET RADIO MANUAL IN BRAILLE: Northern Nevada Braille Transcribers, a volunteer, nonprofit, tax-exempt group, now has the MFJ-1270 TNC-2 Packet Radio Owners Manual available in braille. It is contained in six volumes of various lengths. It is also available on an Apple computer floppy disk. This braille manuscript is available without charge to anyone who can use it. However, contributions in any amount are gratefully accepted. Interested parties can write for additional information to: Northern Nevada Braille Transcribers, 1015 Oxford Avenue, Sparks, NV 89431.

:-----:

CONGRATS to John Offerdahl, KC9-XH, Verona, on his recent graduation from the University of Wisconsin-Madison Law School. John, who is also Emergency Coordinator for the Skywarn Net on the Baraboo 28/88 repeater, is blind. He was the

subject of a statewide wire service story about a blind student's problems in school.

Traveling the HAM & EGGS = Circuit

WISCONSIN RAPIDS: On Saturdays at about 9 a.m., amateurs gather at the Farmer's Daughter Restaurant. Visitors are always welcome.

- Gene Santoski, K9UTQ



SSB

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☐ new ☐ renewal

Amateur Radio K2BSA at the 1989 National Scout Jamboree

Photos and story by Gene Santoski, K9UTQ
1220 18th Street South, Wisconsin Rapids, WI 54494

This past summer, I had the privilege and honor of being one of the 40 operators of K2BSA at the National Boy Scout Jamboree at Ft. A.P. Hill, Virginia. This Army base, which is situated near Richmond, Virginia, became the 14th largest city in Virginia in about 48 hours.

Before I get into the K2BSA operation, let me give you some perspective as to how large this event really is. It was the largest youth gathering in the world this past year!

The Jamboree encompassed about 9 square miles, and some 35,000 scouts and their leaders erected approximately 15,000 tents!

One of the first questions that arises is 'how do you feed such a large gathering of youth?' Well, it took 650 people, working in 23 field warehouses and distribution centers, 25 field dining facilities, and four cafeterias, to get the job done.

The youth attending the Jamboree prepared their three meals in their patrol sites for groups of eight and two leaders.

Some 3,000 subcamp, regional, and national staff members were fed in the field dining facilities, staffed with volunteer Scouters as cooks. The four cafeterias fed the remaining 2,000 headquarters staff members.

Jamboree participants consumed 22 tons of cereal, 3,000 gallons of applesauce, five tons of raisins, ten tons of butter, 15 tons of dried fruit and nuts, and tons and tons of fresh produce, including apples, bananas, blueberries, cantaloupe, carrots, celery, grapefruit, lettuce, oranges, peaches, strawberries, and tomatoes.

It took 11,000 gallons of pure fruit juices, 110,000 gallons of fruit drink, 380,000 pints of milk, and vast amounts of soft drinks and tea to wash all these foods down.

Besides the food, it took 150 tons of ice and more than two million paper plates, bowls, cups, and plastic flatware to feed the Jamboree masses.

As you can readily see, this is a BIIIIIG operation!!!!

The opening show was quite a spectacle. Seeing 35,000 plus scouts and their leaders marching more than two miles to the arena was something to behold. There were 775 American flags flying on the stage at one point, while country singer Lee Greenwood sang "I'm Proud to be an American" - enough to make the hairs on your neck stand straight out and tears to run down your cheeks - really great!! There were over 80,000 in attendance at the opening ceremony. Steven Spielberg, of motion picture fame, and an Eagle Scout himself, was presented with an award for creating the cinematography merit badge.

Later in the week, President Bush paid a visit and gave a speech. He gave those in attendance a challenge to conquer the drug problem in this country, and he told them "You are America's future." He continued by saying that the drug problem is a "poisoning of the mind, a corruption of the very soul of young America."

Now, on to the BEST part of the Jamboree - Amateur Radio Station K2BSA.

The staff that ran the station consisted of 31 adults and four youth members ranging in age from 18 to 72; all were licensed.

The station operations were under the direction of Larry Eichel, K2NA, from Boulder, Colorado. He is a Navy veteran of 24 years, and is presently a senior executive for Bell Aerospace. He was assisted by Ray Moyer, WD8JKV, of the National Boy Scout Office at Irving, Texas. Ray was the staff advisor.

K2BSA was an exciting display of technology in action; live color TV, satellite communications, and hands-on packet radio, to name a few. There were many chances for scouts to get on the air, and a very busy message service was provided and captivated the enthusiasm of many scouts and leaders visiting the station. K2BSA was the only display in operation around the clock at the Jamboree.

Major equipment manufacturers loaned nearly \$100,000 worth of new gear to show off the many different ways of getting on the

K2BSA

Fort A.P. Hill, VA



August 2-8, 1989

1989 National Jamboree



This is the staff of K2BSA. The author, Gene Santoski, K9UTQ, is second from right, just to the left of the man with the beard.

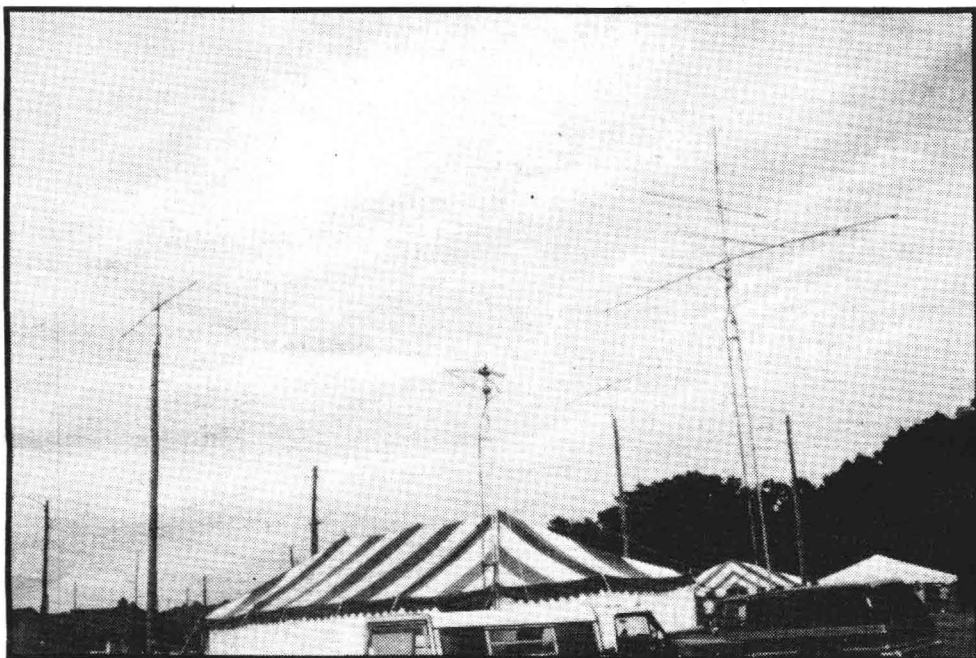
air. There were NO EQUIPMENT FAILURES!!

Those of us on the staff began to arrive nearly a week before the opening of the Jamboree. Set up began with building tables, painting partitions, and locating a site for the two repeaters. The 25th Signal Battalion had several 100-foot microwave towers installed to support Jamboree communications. After a series of negotiations, space for the antennas, repeaters, and duplexers was secured, courtesy of the U.S. Army. The repeaters were consistently active, not only from staff members at K2BSA, but with chatter and traffic from the many other hams (over 400) living at the Jamboree. This was in addition to the many hams who visited the Jamboree daily.

The Woodbridge Wireless Club, of Woodbridge, VA, delivered the equipment, and helped with erection of antennas. An Army bucket truck was utilized to place the beams atop several 60-foot cedar poles that were installed by the Army prior to our arrival.

For HF antennas, we had monoband beams on 40 thru 10 meters, and a Windom on 75 meters. We also had beams on 6, 2, 1 1/4, and 70 cm. Crossed Yagis on 145 and 435 were used for OSCAR.

More than 3,000 stations contacted K2BSA during the Jamboree from over 160 countries and all states and Canadian provinces. Lack of consistent 10 meter openings during the early evenings prevented many Scouts with Technician class licenses from making contacts to home. Alternate schedules on lower bands prompted quite a few Scouts to promise to study hard for the upgrade to General. In all, there were 3,840 QSOs!



Here's the K2BSA antenna farm. Note the OSCAR antennas on the short tower, just in front of the tent. 3,840 QSOs were made from K2BSA during the Jamboree.



Greg, N8LAI, right, receives a set of Walter Tompkins mystery books from ARRL staffer Russ Healy, NJ2L, in recognition of Greg's passing his Amateur Extra Class exam at the Jamboree.



Dave Boland, W9NWX, of Neenah, WI, above, visited the Jamboree and enjoyed being a guest operator at K2BSA.



Greg, N8LAI, of Toledo, Ohio, does some DXing on 20 meters, as a group of interested Scouts looks on.

The Merit Badge Midway Crew, headed by Bill Free, WA6QYR, gave Scouts a chance to try different skills and earn the Radio Merit Badge (74 earned the badge, and 280 more completed part of the requirements). The Radio Merit Badge staff held kit building sessions, operated a short wave listening post, and conducted both merit badge and Novice license training classes. The VEC test sessions netted 12 new Novices and several upgrades at the Jamboree. Greg, N8LAI, a 13-year-old Scout from Toledo, Ohio, came to the Jamboree as a Novice, and left as an Extra Class! (See photo).

We set up a Fast-Scan TV and packet link between K2BSA and the Merit Badge location (a distance of about 500 yards), and the boys really had a ball, watching one another send messages back and forth on packet while seeing themselves on TV!

We had our own packet bulletin board, and took several Zenith laptop computers to the various sub-camps to generate traffic to all parts of the country. The packet network, headed by Bob Johnson, K3RC, handled over 2,000 outgoing messages flowing to all states and several foreign countries.

One of our staff members was Russ Healy, NJ2L, from American Radio Relay League Headquarters, who served as League liaison to the Jamboree.

We all had a great time out there. It was like a week-long field day! Probably the most memorable part of the whole thing



This is the OSCAR satellite station at K2BSA.

was seeing the number of scouts who toured the station, and the interest they showed in Amateur Radio. The organization, planning, and development of the station was outstanding. The staff showed a wealth of experience and savvy, combined with a high degree of dedication to kids and the hobby. I truly enjoyed working with the motivated group of amateurs to keep K2BSA on the air 24 hours a day. I think we have planted seeds to grow another generation of radio amateurs. We can be sure that we have made a significant contribution to Scouting, to youth, and to Amateur Radio in America.

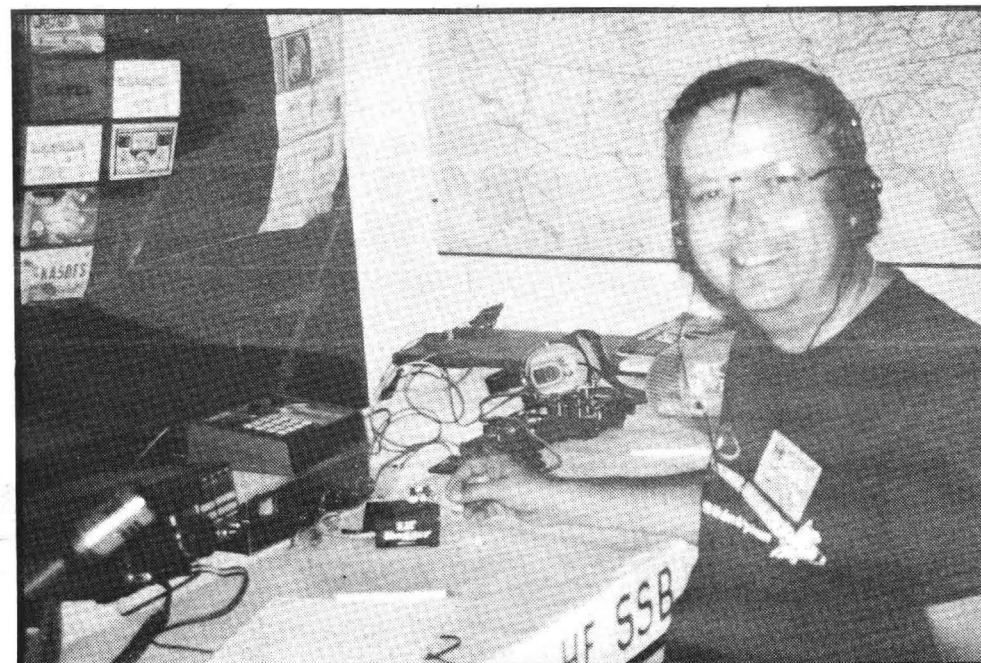
I think that, all in all, the one message that was brought home to each staff member, visitor, and Scout family who were touched by K2BSA activity, is that the spirit of youth in Amateur Radio is alive and well - Scouts can help nurture and make it grow.

We are all deeply indebted to the local radio clubs, National Traffic System (NTS) operators, and BBS operators across the country for taking the time to give us the necessary support for this superb operation. We are also very grateful to the many equipment manufacturers and the ARRL for their generous loans of their equipment for our use.

Our motto at K2BSA was "RADIO IS MORE THAN A MERIT BADGE!"

73, and yours in Radio Scouting,

Gene Santoski, K9UTQ



Here's the author, Gene Santoski, K9UTQ, at the controls of K2BSA. Gene is the manager of the Wisconsin Sideband Net.

(Parts of the above are excerpts from "SCOUTGRAM", published by Lary Eichel, K2NA, in the interest of combined Scouting and Radio. If you are involved in Scouting, and are interested in re-

ceiving periodic copies of SCOUTGRAM, drop a note to Lary at P.O. Box 13278, Boulder, CO 80308-3278, along with a monetary donation of your choice. Lary can also be reached on packet - K2NA @ WØLJF. He is always looking for contributions of articles involving Scouting and Radio.)

ARRL Files Proposal for Automatic RTTY and Data Operation

(Continued from front page)

ity. ..AMTOR is more robust than is packet radio and is used to bridge difficult radio paths. ..Thus, its operations under automatic control is not only feasible but necessary for the development and efficient operation of amateur networks. ..manually controlled Baudot RTTY 'mailboxes' (or MSOs) have been active in the Amateur Radio Service since the early 1980s. ..the software controlling the mailboxes has provisions which allow the interrogating station to ask for repeats. Manual control of these mailboxes.... is an unnecessary burden on the mailbox system operators.The technology and operational experience using each of these modes has matured to the point that this is now possible.the benefits of automatic operation are shared by amateur operators worldwide and are instantly available to

provide public service during disasters."

The petition seeks designation of the following band segments as being available (not exclusively) for automatic control of RTTY and data transmissions:

- * 3.605 to 3.615 MHz
- * 7.035 to 7.045 MHz
- * 10.140 to 10.150 MHz
- * 14.090 to 14.100 MHz
- * 18.100 to 18.110 MHz
- * 21.090 to 21.100 MHz
- * 24.920 to 24.930 MHz
- * 28.100 to 28.120 MHz

In a separate letter to SKIPNET members, ARRL Executive Vice President Dave Sumner, K1ZZ, explained why these particular frequencies are suggested in ARRL's petition. Dave said that the ranges chosen in most bands are probably self-evident, except for those in the 20 and 40 meter bands.

"The specific frequencies used by SKIPNET stations have shown that it's possible to shoehorn in with other U.S. users. But, we have received complaints from societies in other countries about HF packet frequencies, particularly in the 20 and 40 meter bands.

"On 20 meters, nearly every other country operates phone in the 14.100-14.150 MHz range, and packet operations in the lower part of that range have been a continual cause of concern to them. This has been the case in all ITU/IARU Regions, including Region 2 - the Americas. The fact that some of their own packet operators use frequencies above 14.100 has not convinced the societies that this is a good place for packet. The worldwide consensus (with some reluctance on our part) is that

packet should operate below 14.100. Of course, that puts pressure on the Baudot RTTYers and AMTOR RTTYers just below them in frequency, and ultimately on the CW operations.

"On 40 meters, most countries have a narrower band - only 7.0 to 7.1 MHz - into which they must squeeze CW, RTTY, packet, phone, and image communications. Around 7.040, or even as low as 7.030, is where their phone band starts. So, you can understand why there might be contention over packet and RTTY around 7.090.

"The frequency segments for each band were chosen after careful review of domestic and international implications. While we knew to begin with that there was no such thing as a "perfect fit," we had to try for a "best fit" solution. Please bear in mind that we now have a viable packet network that is worldwide in scope. As such, we need to use frequencies that are compatible with the rest of the world. Even with the frequency segments chosen, there may still be the need for future adjustments, both by us and in other countries, to finally arrive at common segments for automatic operation.

"We anticipate that individuals may wish to suggest some changes in the frequency segments proposed by the League. We believe such inputs to be helpful in cases where commenters take the time to consider the domestic and international implications of their proposals."

At press time, the FCC has not yet assigned an RM (rule making) number.

- The ARRL Letter, 12/29/89

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Repeater Profiles



By John W. Frank, WB9TQG
P. O. Box 5113
Madison, WI 53705

The Madison Area Repeater Association's 147.15 MHz machine has so many special features, I couldn't list them all here if I wanted to. A few of these features include IDers using both CW and voice. The voice ID is used when the repeater is first keyed; the CW IDer is used when the ID runs in mid-QSO. MARA members can use special access codes for the autopatch, check their signal strength at the repeater site to make sure it is strong enough for a good quality autopatch, check the outdoor air temperature at the repeater site, and use autodial access codes for frequently called phone numbers.

Control operators can activate the CTCSS decoder at the repeater site by remote control, in the event of band openings that result in interference to the system from distant stations working through other repeaters. Under normal circumstances, the repeater uses carrier access. If the system suffers interference from distant stations, and the CTCSS decoder is therefore activated, a subaudible tone of 123.0 Hz is needed to access the repeater.

One important feature of this repeater that all hams should be aware of is the emergency autopatch feature. To reach emergency services in Dane County, dial 9119 on your touch tone™ pad. This will put

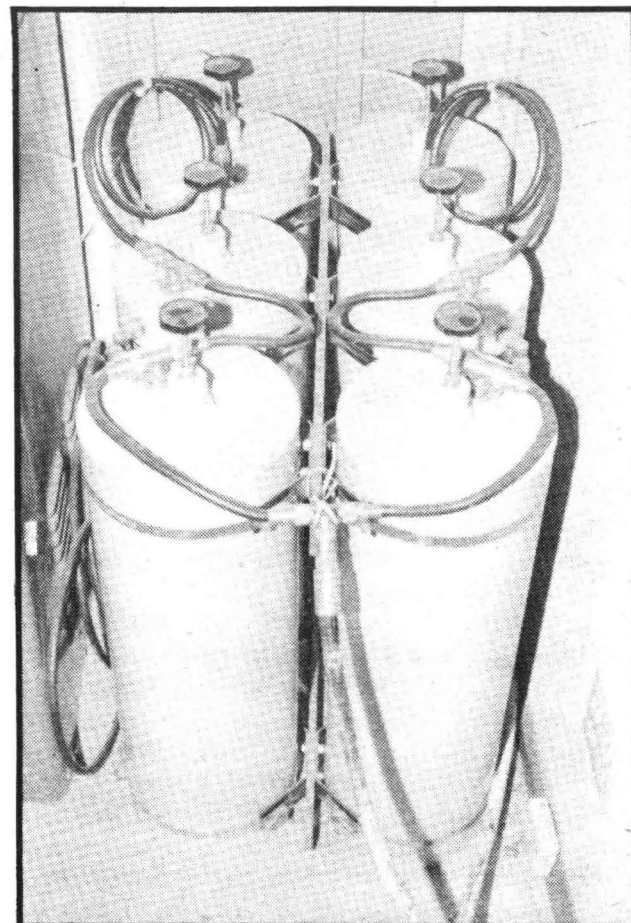


The MARA 147.75/147.15 repeater consists of a Maggiore repeater, an ACC RCC-850 controller, and a 55 watt power amplifier.

you in contact with the emergency dispatcher (police, fire, etc.). To drop this patch, use a touch tone "0".

The heart of this repeater is an ACC RC-850 controller. A Maggiore repeater handles the RF chores, and drives a 55 watt power amplifier. A Wacom duplexer sorts out the received and transmitted signals. The antenna is a Celwave omnidirectional gain antenna, mounted 750 feet up the WMTV (channel 15) tower.

In addition to this repeater (147.75 in,



A Wacom duplexer is used between the antenna and the receiver and transmitter.

147.15 out), MARA also owns and operates a 146.16/146.76 machine.

Annual dues in MARA are \$18.00. New members are also charged a one-time initiation fee of \$8.00.

For more information about MARA, write: MARA, P.O. Box 8890, Madison, Wisconsin 53708-8890. MARA is a non-profit corporation.

Don't forget, the MARA Swapfest and Computer Fair will be held at the Dane County Expo Center Forum Building on Sunday, April 8, 1990.

Northern Wisconsin Radio Club

—Since 1923—

Steve Kraft, KE9RW
Secretary
Rt. 7, Box 62
Menomonie, WI. 54751

The last meeting of the NWRC was held November 28, 1989, and no meeting was scheduled for December. The next meeting will be January 23, 1990, at the Peppermill Restaurant in the Thunderbird Mall, Menomonie. Meeting time is 7:30 p.m. WJ9Y, Marlin, will speak on laser technology and brief us on the repeater systems offered by the St. Croix Valley Radio Amateurs.

Please remember the annual club auction February 20, 1990. Meeting time is

7:30 p.m. at the American Legion Post 53, 634 Water Street, Eau Claire. The hall will be open at 7 p.m. to allow you to set up your items. If you wish to receive a minimum bid, be sure to write it on your items, along with your name or call sign. Items for the auction should be of electronic nature, such as amateur and computer related. The club will retain 10% of the sale to cover expenses. Admission is \$3.00 to non-members, and \$5.00 (\$10.00 if you wish to receive BSSS) 1990 member dues. The club will also be offering door prizes. All items are sold as is, and the sale is final. Hope to see you there!!

We have set the following meeting for March 27 in Menomonie, again at the Peppermill Restaurant. After our meeting, WØ-LUY (Ernie), and his wife, Delores, will offer a program on Blue Birds. Don't miss this one!! Just in time for Spring.

Steve Kraft, KE9RW, Secretary

Traveling the HAM & EGGS Circuit

MILWAUKEE: On the third Tuesday of each month, somewhere in the neighborhood of thirty-five to fifty amateurs get together for a "CQ3TUE" luncheon at the Scanda House at 110th and Oklahoma Avenue in Milwaukee. The starting time is usually about 11:00 a.m. This is an informal affair, and is not sponsored by any club or organization. It affords the attending amateurs an opportunity to socialize with other amateurs. No formal meetings - no officers, just good conversation and sharing of common interests. Everyone is welcome. It is surprising to note the number of hams who show up from all parts of the states, as well as foreign countries. This traditional luncheon has been held for over 15 years.

- Ed Seruga, KE9JJ

SAREX Blasts off in 1990

The Shuttle Amateur Radio Experiment (SAREX) will have a big year in 1990. So much so, it has been dubbed "SAREX-90."

STS-35 - Space Shuttle Columbia is scheduled for a 10-day mission, to be launched on the evening of April 26, 1990. Dr. Ron Parise, WA4SIR, a Payload Specialist, has been cleared by NASA to operate voice and packet radio during his flight.

STS-37 - Space Shuttle Atlantis is scheduled for a five-day mission to be launched June 4, 1990. Marine Corps Lt. Col. Ken Cameron, KB5AWP, the Pilot, has been authorized to operate voice, packet, slow scan television, and ATV.

A prime objective of both missions is school participation.

Both flights will use the amateur 2-meter band. The equipment is now undergoing final testing at the Johnson Space Center, in Houston. Packet operations will be continuous for periods of about 12 hours daily. Voice and television operations will be dependent on the astronaut's work schedules, but early flight plans indicate that they should have an hour or more available daily.

The orbital track on both missions will be at an inclination of approximately 28.5 degrees. This southerly orbit will put most of the United States out of range during the times when the astronauts are available, so the Radio Amateur Satellite Corporation (AMSAT) plans to establish ground station networks over strategic locations to relay communications. Stations in Australia, South America, Mexico, and Africa are now being contacted by AMSAT. Japan is also under consideration. Each general area will be coordinated by a control station, which will be in direct contact with a key station, W5RRR, at the Johnson Space Center, in Houston, Texas. They will use amateur satellites, short wave links, and commercial facilities for the international hookup.

Communications will be broadcast by the key station and repeated to WA3NAN, at Goddard Space Flight Center, Washington, DC, and to W6VIO, at the Jet Propulsion Lab in Pasadena, California. Broadcasts from these stations, and W1AW, will be heard on most amateur bands. Several VHF and UHF repeater groups plan to pick up and rebroadcast the material. They will carry NASA Mission Commentary, frequent bulletins to advise listeners of astronaut planned transmissions and repetition of all amateur two-way voice and slow scan TV transmissions with the spacecraft. Mission planning information also will be fed by computer from the Johnson Space Center to the coordinating stations to insure the accuracy of their bulletins of advice on when and where to tune in the spacecraft. W1AW will be used as a media showcase, as will W5RRR.

In addition, a Teleconference Net is planned, to feed most amateur repeater stations in the United States. These stations will permit easy access to schools. With the help of Amateur Radio club members and hand held equipment, students will be invited to share in the flights. Their questions will be answered. At some locations, they will even be able to talk directly to the astronauts!

This project is cosponsored by the American Radio Relay League (ARRL) and AMSAT. ARRL is lead organization for information, education, and support. AMSAT is lead for technical operations. The Johnson Space Center Amateur Radio Club is in charge of in-flight equipment and flight planning. The Motorola Radio Club in Illinois has provided specially built transceivers and antenna.

In the 1980s, the original SAREX flights gave a dramatic, public display of Amateur Radio in space. SAREX-90 presents an even greater opportunity. With the variety of operational modes available, SAREX-90 will show the world Amateur Radio at its very best!

- The ARRL Letter, 12/18/89,
published by the American Radio Relay League

PELTS

The Federal Communications Commission, on December 12, proposed the establishment of a Personal Locator Transmitter Service (PELTS), that would provide individuals in remote areas with a means of alerting others of an emergency situation, and to help search and rescue personnel locate those in distress. The Commission pointed out that a growing number of persons are participating in outdoor activities, resulting in an increased number of situations requiring immediate emergency assistance. For example, nine teenage climbers were caught in a severe, unexpected storm on Oregon's Mount Hood, and lost their lives. Four skiers died under an avalanche at Breckenridge, CO. These individuals might have been saved if they had a means of signaling to rescuers.

The Commission says it has two objectives in mind in establishing the PELTS. The first is to provide for an areawide, centrally coordinated radio communications system for use by the general public in remote areas, thereby reducing response time in emergency situations. The second objective is to reduce the illegal use of Emergency Locator Transmitters (ELTs) and Emergency Position Indicating Radio Beacons (EPIRBs) as personal locating beacons. ELTs and EPIRBs are emergency radio beacons used to assist search and rescue units in locating downed aircraft and vessels in distress.

PELTS would consist of a base station and associated portable units. Only governmental agencies or private search and rescue organizations would be eligible for base station licensing, to assure that use will be limited to distress and assistance communications, but portables would not be restricted.

The FCC proposed to use 50 KHz of the reallocated 220-222 MHz band for PELTS, in five frequency pairs. To offer the public some assurance that the equipment is safe and likely to perform its intended function, the Commission proposed technical standards and design specifications for PELTS equipment. The PELTS system is outlined in FCC PR Docket 89-599.

The American Radio Relay League will seek a stay of this Docket and PR Docket 89-552, FCC's proposed service rules for land mobile operation on 220-222 MHz, if the rulemaking process reaches the Report and Order stage before the US Court of Ap-

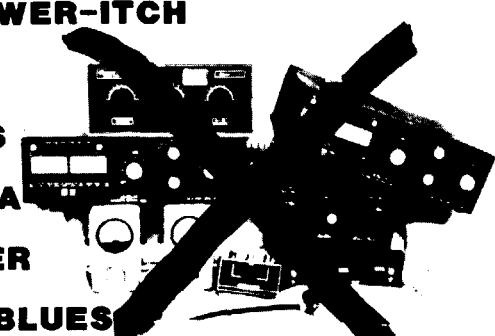
peals for the DC Circuit has made a decision on the ARRL request for review of FCC's reallocation decision in Docket 87-14.

- The ARRL Letter, 12/29/89

JANUARY 4, 1983

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1990 Wisconsin QSO Party



The Wisconsin QSO Party, sponsored by the West Allis Radio Amateur Club, will be held from 1800Z March 10 to 0100 March 11, 1989.

The Wisconsin QSO Party is considered to be one of the best of its kind in the country, and the level of participation and activity is very high.

The ten highest scores in last year's party, in the single operator-fixed category were:

- (1) WB9SBD, Vernon County, 73,240;
- (2) W9XT, Washington County, 44,956;
- (3) N9AW, Milwaukee County, 42,909;
- (4) KB9S, Pepin County, 42,770;
- (5) WA9TZE, Milwaukee County, 36,466;
- (6) WB9HRO/9, Dane County, 36,132;
- (7) K9OSH, Waukesha County, 35,700;
- (8) KC9NH, Winnebago County, 32,340;
- (9) KB9AIT, Outagamie County, 26,668; and
- (10) WE9V, Milwaukee County, 22,966.

In the aggregate scores from Wisconsin clubs, the top five clubs in 1989 were (the number in parenthesis after the score is the club's ranking in 1988):

- (1) W/K Amateur Radio Club of Greater Milwaukee, 198,320 (1);
- (2) Kettle Moraine Radio Amateurs, 139,327 (6);
- (3) West Allis Radio Amateur Club, 46,233 (2);
- (4) Wabasha Area Amateur Radio Club, 42,770 (8); and
- (5) Green Bay Mike and Key Club, 40,746 (11).

The Wisconsin QSO Party is open to all licensed radio amateurs.

The rules are printed on this page, and on the reverse side is an official entry form; this form or a good, legible photocopy may be used.

It is expected that a number of mobiles will be operating, giving out some of the more rare Wisconsin counties.

This contest is fun for everyone, whether a veteran contestant or casual operator. When the results are tabulated, all entrants will receive a copy of

Badger State Smoke Signals, with the results. Entries must be submitted by April 15, 1990.

The West Allis Radio Amateur Club also sponsors

the Emil Kumershek Memorial Scholarships (for Wisconsin amateurs only), and the Mid-Winter Swapfest, held each January in Waukesha.

WISCONSIN QSO PARTY RULES

- DATE/TIME:** 1800Z MARCH 10 - 0100Z MARCH 11, 1990.
- MODES:** CW and Phone. All stations may be worked once per mode on each band. In addition, mobiles may be worked once per mode per county that they operate from. No Repeater QSOs.
- ENTRY CLASSES:**
- | | | |
|------------------------|-----------------------|----------------------------|
| Single Operator Fixed | Multi Operator Fixed | Multi Xmtr/Multi Op Fixed |
| Single Operator Mobile | Multi Operator Mobile | Multi Xmtr/Multi Op Mobile |
| Single Operator Novice | Multi Operator Novice | Multi Xmtr/Multi Op Novice |
| Single Operator Tech | Multi Operator Tech | Multi Xmtr/Multi Op Tech |
- EXCHANGE:** Wisconsin stations send county. Non-Wisconsin stations send state/province.
- FREQUENCIES:** CW: 3550, 3725, 7050, 7125, 14050, 21150 ** Suggested frequencies **
Phone: 3890, 7290, 14290, 28400. ** Other bands may be used **
- SCORING:** Phone contacts count 1 QSO point; CW contacts count 2 QSO points.
WISCONSIN STATIONS: Multiply the sum of QSO points by the sum of Wisconsin counties (max 72), plus states (max 50) plus provinces (max 13).
Note: DX countries count for QSO points but not as multipliers.
NON-WISCONSIN STATIONS: Multiply the sum of QSO points by the number of Wisconsin counties (maximum 72).
- BONUS:** **WISCONSIN MOBILES/PORTABLES:** Add 500 bonus points for each county that you operate from, outside your home county, with a minimum of 15 QSOs per county to qualify.
- LOGS:** Entries must contain a log consisting of: Time (GMT), call, band, state/province, Wisconsin county, mode and a complete Score Summary including YOUR name, address and call. Circle new multipliers as worked. Logs containing more than 100 QSOs must be accompanied by a dupe sheet (separate dupe sheet for each mode). Mobile entries must indicate county changes in log and submit a separate dupe sheet for each county. Entries must be postmarked by April 15, 1990 and sent to:

WISCONSIN QSO PARTY
WEST ALLIS RADIO AMATEUR CLUB
P. O. BOX 1072
MILWAUKEE, WI 53201

AWARDS:

NON-WISCONSIN: Awards will be presented to the highest single operator score in each single operator category in each state/province.

WISCONSIN: Awards will be presented to the following:

- a. Plaque to highest single operator score in the QSO Party.
- b. 10 highest single operator scores in each entry class.
- c. Highest multi-operator score in each entry class.
- d. Highest aggregate club score (club member stations to be located within 50 miles of the club except for mobiles).

WISCONSIN COUNTIES				STATES			CANADIAN PROVINCES
ADAMS	FLORENCE	MARATHON	RUSK	ALABAMA	LOUISIANA	OHIO	ALBERTA
ASHLAND	FOND DU LAC	MARINETTE	SAUK	ALASKA	MARYLAND (D.C.)	OKLAHOMA	BRITISH COLUMBIA
BARRON	FOREST	MARQUETTE	SAUK	ARIZONA	MASSACHUSETTS	OREGON	LABRADOR
BAYFIELD	GRANT	MENOMINEE	SAWYER	ARKANSAS	MAINE	PENNSYLVANIA	MANITOBA
BROWN	GREEN	MILWAUKEE	SHEBOYGAN	CALIFORNIA	MICHIGAN	RHODE ISLAND	NEW BRUNSWICK
BUFFALO	GREEN LAKE	MONROE	ST. CROIX	COLORADO	MINNESOTA	SOUTH CAROLINA	NEWFOUNDLAND
BURNETT	IOWA	OCONTO	TAYLOR	CONNECTICUT	MISSISSIPPI	SOUTH DAKOTA	NORTHWEST TERRITORIES
CALUMET	IRON	ONEIDA	TREMPEALEAU	DELAWARE	MISSOURI	TENNESSEE	NOVA SCOTIA
CHIPPewa	JACKSON	OUTAGAMIE	VERNON	FLORIDA	MONTANA	TEXAS	ONTARIO
CLARK	JEFFERSON	OZAUCKEE	VILAS	GEORGIA	NEBRASKA	UTAH	PRINCE EDWARD ISLAND
COLUMBIA	JUNEAU	PEPIN	WALWORTH	HAWAII	NEVADA	VERMONT	QUEBEC
CRAWFORD	KENOSHA	PIERCE	WASHBURN	IOWA	NEW HAMPSHIRE	VIRGINIA	SASKATCHEWAN
DANE	Kewaunee	POLK	WASHINGTON	IDAHO	NEW JERSEY	WASHINGTON	YUKON TERRITORY
DODGE	LA CROSSE	PORTAGE	WAUKESHA	ILLINOIS	NEW MEXICO	WEST VIRGINIA	
DOOR	LAFAYETTE	PRICE	WAUPACA	INDIANA	NEW YORK	WISCONSIN	
DOUGLAS	LANGLADE	RACINE	WAUSHARA	KANSAS	NORTH CAROLINA	WYOMING	
DUNN	LINCOLN	RICHLAND	WINNEBAGO	KENTUCKY	NORTH DAKOTA		
EAU CLAIRE	MANITOWOC	ROCK	WOOD				

Articles, Photos Wanted

Badger State Smoke Signals can always use articles about any subject related to Amateur Radio. We also need good, sharp B&W or color photos of radio amateurs - at their stations, operating contests, building

communications trailers, working 2 meters from hot air balloons - your imagination is the limit. Identify all subjects by full name, call sign(s) (if any), and city. Send all materials to the editor, address page 2.

MTC Nets

The Morse Telegraph Club has a number of nets on the amateur bands. While most of these nets use American Morse as a means of perpetuating the

"mother tongue," this is not meant to keep anyone out - feel free to check in using International Morse. The nets are listed by area, net designator, the usual net control station, frequency, and days and times:

1990 WISCONSIN QSO PARTY SCORE SUMMARY SHEET

Call _____ Home WI County _____

Name _____ Club Affiliation _____

Address _____

City _____ State/Province _____ Zip _____

ENTRY CLASS:	Single Op Fixed <input type="checkbox"/>	Multi Op Fixed <input type="checkbox"/>	Multi-Multi Fixed <input type="checkbox"/>
	Single Op Mobile <input type="checkbox"/>	Multi Op Mobile <input type="checkbox"/>	Multi-Multi Mobile <input type="checkbox"/>
	Single Op Novice <input type="checkbox"/>	Multi Op Novice <input type="checkbox"/>	Multi-Multi Novice <input type="checkbox"/>
	Single Op Tech <input type="checkbox"/>	Multi Op Tech <input type="checkbox"/>	Multi-Multi Tech <input type="checkbox"/>

WI Counties Worked From _____

SCORING:	CW QSOs _____	x 2	=	_____	CW Points
	Phone QSOs _____	x 1	=	_____	Phone Points
	Sum of CW + Phone Points		=	_____	QSO Points
	Number of Multipliers		=	_____	Multipliers
	Wis. Counties (72) _____				
	States (50) _____				
	Provinces (13) _____				
	QSO Points x Multipliers		=	_____	Points
	Added Bonus Points		=	_____	Points
	Total Final Score		=	_____	Points

I have read and followed the WISCONSIN QSO PARTY RULES to the best of my knowledge.
(All OPERATORS must sign.)

Signature(s) _____

Date _____

To qualify, entries must be postmarked by April 15, 1990. Send to: WISCONSIN QSO PARTY, WEST ALLIS RADIO AMATEUR CLUB, P. O. BOX 1072, MILWAUKEE, WI 53201. Entries may be disqualified if the QSO Party Rules are not followed. The decision of the Wisconsin QSO Party Rules Committee shall be final. Results will be published in Badger State Smoke Signals. All entries will receive the "official results" issue free.

EAST "MTC"
W1FSH 3.544 MHz
8:30 a.m. and 7:30 p.m.

MIDWEST "MTC"
WAØQEY, W5MCJ
7.041 MHz
10:30 a.m. and 7:00 p.m.

MIDWEST "MTC"
W9YZE 7.144 MHz
9:30 a.m. Mon-Wed-Fri

MIDWEST "MTC"
N4HKS 3.544 MHz
6 p.m. winter,
7 p.m. summer

NORTHWEST "NRRN"
K7RBR 3.710 MHz
9 a.m., Mon-Fri

NORTHWEST "NRRN"
WB7VSN, WE7I 7.117 MHz
7:30 p.m.

WEST "WARMC"
W6MIN 7.055 MHz
9:00 a.m., Sat and Sun

The Morse Telegraph Club's members are primarily people who earned their livings as telegraph operators, usually on railroads or for Western Union; it is not an Amateur Radio subgroup. Amateurs are welcome to join, however. MTC publishes an excellent quarterly newspaper, "Dots and Dashes," which is where we got the net list. MTC information is available from Bill Dunbar, AD9E, 1101 Maplewood Dr., Normal, IL 61761.

The Communicator

News of Greater Taylor County Area Amateur Radio Events and Activities

Mike Schoenfuss, N9GHZ, Editor, P.O. Box 401, Abbotsford, WI 54405 • Phone (715) 223-3996

MONTHLY CLUB MEETING - TAYLOR COUNTY AREA AMATEUR RADIO CLUB

Thursday, February 8th. Location: Emergency Government meeting room, basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Streets, Medford, Wisconsin. The meeting starts at 7 p.m.

Agenda and Program for February meeting: Because of the cancellation of the January meeting due to inclement weather, this will be a carryover from what was scheduled for the January meeting, including: Annual election of club officers. Progress reports on the W9QHL/R and WA9ZCO/R repeaters and the N9GHZ-1 (WIMED) packet radio node will be presented. Also, further discussion on the major project involving Amateur Radio with the White Pines District Boy Scout Camporee, to be held in Gilman, Wis. in May, 1990. Update on Amateur Radio Novice license preparation course. Updating of the Directory of Taylor County Area Amateur Radio Operators. Following the business meeting, a videotape of the Air Force GWEN tower meeting held in Medford on November 30th will be shown, if time permits.

CLUB NEWS

The January meeting was cancelled due to inclement weather.

A Christmas gift, in the form of a box of chocolates, was presented to each of the following by N9GHZ: Midway Telephone Co.; Northcentral Technical College; the Abbotsford Tribune-Phonograph newspaper; the Medford Star News newspaper; and Roland Sacho, Coordinator, Taylor County Office of Emergency Government. The purpose of the gifts was to express our appreciation for their cooperation with and support of the local club, and Amateur Radio in general, in the past. A card, expressing this message, accompanied each gift.

A get-well card and floral arrangement was sent from the club to Stacey Garner, WG9J, daughter of Greg Garner, WA9W, both of Tomahawk, who are former area residents and former members of the Taylor County Area Amateur Radio Club. Stacey was hospitalized for a while in mid-December, at Howard Young Medical Center in Woodruff, but she was back home in time for Christmas, and at last report is doing well again.

All club members are reminded that 1990 club/repeater dues are again due. The following is a list of those who already have their 1990 dues paid, according to the records I have to date:

N9FZD	WD9C	N9GEN	W9LEE
WD9ASX	KB9BLV	KA9WDX	KA9WDC
WD9FWP	KE9LX	N9IDW	N9GHZ
WA9YCT	KE4FE	KB9AMZ	KA9UXN
N9FZS	KA9SMQ	W9QHL	

TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE NEWS

From Mike Schoenfuss, N9GHZ
Taylor/Clark County
ARES Emergency Coordinator

Don't forget to try to check into the weekly ARES net, held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/-147.15). You're also encouraged to volunteer for net control duty for the net. A current copy of the net control script was mailed to all Taylor County area hams with a Technician license or higher, in early January.

144.67/145.27 DORCHESTER REPEATER (WA9ZCO/R)

A reminder to all that the RAIN Dial-Up Service weekly amateur radio news bulletin can be heard on this repeater every Wednesday evening at 8 p.m.

147.75/147.15 MEDFORD REPEATER (W9QHL/R)

The 146.22/82 Rib Mountain repeater at Wausau has recently been experiencing RFI noise similar to that which has been plaguing the Medford repeater. It appears to be some sort of video "buzz", and cable TV leakage is suspected. The problem is being looked into.

NOVICE LICENSE COURSE

A short article, announcing our most recent Novice Class license course offering, was run on p. 21 of the 1/10/90 issue of the Medford Star News newspaper, under the "Taylor County Community Education Center News" column. This article was written by the college campus staff, and not by N9GHZ. They set the course fee at \$43.40, with a start date of Jan. 15. N9GHZ called the campus on the morning of the 15th and there had been no sign-ups for the class, so it was cancelled.

The high course fee was probably at least partially responsible for the lack of sign-ups for the class. In the past, the college set fees for our license courses much lower, usually around \$15.00, with the instructor(s) agreeing to accept a lower reimbursement in return. The college would not let us instruct classes at their campus without receiving at least some kind of reimbursement. However, a new college policy requires all instructors to be paid

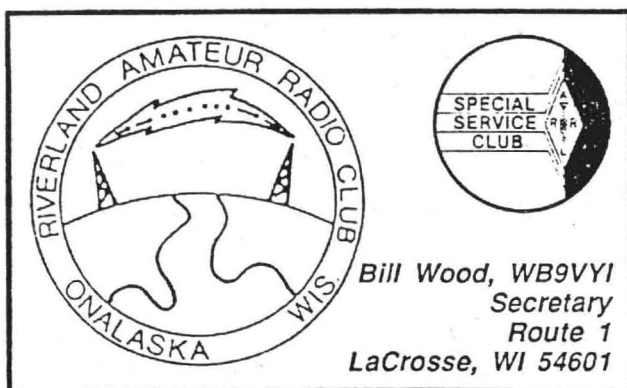
an equal wage. The formula involved in coming up with the course fee most likely involves the number of hours the course will run times the hourly instructor wage, and then dividing that figure by the minimum number of students required to have the class run. It is probably highly unlikely that the course fee would be adjusted downward, even if a larger number of persons signed up for the course.

It appears that the best alternative right now is to return to our previous arrangement of holding classes in the Emergency Government meeting room of the Courthouse in Medford, with either a very minimal fee, or no fee at all. We will wait a month or two before announcing the course again, to avoid any confusion with the just-cancelled course, or negative reactions from the college. We may even want to wait until after the Boy Scout Camporee in early May, as we may be able to pick up additional students as a result of that activity. At that time, a new club-produced course announcement will be submitted to all area newspapers.

WHITE PINES DISTRICT SPRING BOY SCOUT CAMPOREE

N9GHZ will have sign-up sheets available at the February meeting for operators for the various different operating positions at the Camporee, including: HF station, 2-meter station, packet radio station, and ATV station. Time slots will likely be 4-hour blocks. If you cannot attend the February meeting, but would like to assist as an operator of one of the above stations, contact N9GHZ for information on the remaining available time slots. There will be two positions available for each time slot for each station, so that while one operator actually operates and adjusts the equipment, the other operator is available to answer questions from Scouts and explain what is being done and what is going on. This means that, for each station, we need operators who are familiar with the operation of that particular kind of equipment, and who are knowledgeable of the principles behind its use.

STOLEN RIG - FROM NC9G: On Tuesday, Oct. 17, Art Dunham, NC9G, of Park Falls, had a Kenwood 7800 stolen from his car in Park Falls, Wis. Another item was also stolen at that time. The serial number on the rig is 1040101. If anyone has information, they can contact Art at (715) 762-5256, or leave him a message on the KA9-EOK PBBS.



Bill Wood, WB9VYI
Secretary
Route 1
LaCrosse, WI 54601

Greetings.

Our president, Dick Low, KØJYB, called the meeting to order at 7:35 p.m., at the Onalaska Civic Center. He then called for a reading of last month's minutes, and they were accepted as read.

The treasurer's report was unable to be delivered, because I left the books at home.

Van Elston, WA9FIO, then reported on the repeater interference, and also a change in the repeater's location at the site for easier access to the machine.

Van moved we accept the proposed constitution and standing rules as had been presented. Karl Olberg, W4ST, seconded this, and it passed unanimously. Charlie Burch, KA9UUK, volunteered to redo those changes, and will also include the prior changes that had been made since the last printing, to bring everything up to date.

Next, three letters to the club were read and discussed. Charlie moved, and

Karl Simonson seconded, a motion to table further discussion for a short time. All were in favor.

Dick now has a list of most of the club's possessions, and has volunteered to be the "inventory person".

The next subject on the agenda for the evening was the election of new officers. The new officers are:

President: Dick Low, KØJYB
Vice President: Charlie Burch, KA9UUK

Secretary: Bill Wood, WB9VYI
Treasurer: Arby Boomer, WF9T.

Joe Mezera, WA9SOQ, moved to extend the meeting. Karl Simonson seconded this, and all agreed.

Dick suggested we have "Board Meetings" just prior to each meeting, to help expedite things.

Charlie moved, and Karl Simonson seconded, a motion to have the secretary maintain the club's property lists, make them available when requested, and also to update and distribute these annually. The motion carried.

Charlie moved to have the control operators update the control information sheets, then reduce these instructions to a minimum, to be used on the new membership cards. Walter Altus, WD9GCR, seconded this, and it passed unanimously.

Charlie then moved to adjourn, and Bob Selbrede, KA9EZR, seconded; all were in favor.

Please note: Club dues are now due and payable!

MEMBERS PRESENT

Charlie Burch
Feroz Ghose
Dick Low
Larry Kapp
Karl L. Olberg
Joe Mazera
Hugh Barker
Tom Gromacki
Mike Tessmer
Van Elston
Bob Selbrede
Greg A. Miller
Duane Fruechte
Arby Boomer
Ken Weigel
John Jorenby
Jule Kish
Karl E. Simonson
Art Osborn
Wid Johnson
Bill Wood
Maty Johnson
Walter Altus
Rick Williams
Charles A. Ferries

KA9UUK
N9FJL
KØJYB
KB9DER
W4ST
WA9SOQ
KAØEJZ
KB9BIS
NØBSH
WA9FIO
KA9EZR
KA9FOZ
W9HWQ
WF9T
WG9M
KA9ETH
KA9UJL
WØJDC
W9DM
WB9VYI
XYL/W9DM
WD9GCR
KV9U
W9TCW

Respectfully submitted:

Bill Wood, Secretary, R.A.R.C.

Four Lakes Amateur Radio Club Presents Awards



The Four Lakes Amateur Radio Club, of Madison, held its annual banquet Saturday, January 20, 1990, at Mountain Jack's in Madison. Three awards were presented to amateurs in recognition of their efforts to serve our hobby. In the photo at left are Steve Polishinski, WB9YSD, and Jim Waldorf, KB9AQQ. Jim was presented the Clyde "Coffee" Memorial Award by the Madison Area Repeater Association, to honor Jim for meritorious service to MARA by capably and competently leading MARA after the death of MARA President Clyde Downing, W9HSY, last February. In the center photo, FLARC President Scot Herrick, NB9C (left), presents

an award to Art Saboe, W9ZM, recognizing Art's lifetime of service to Amateur Radio. Art holds the top spot on the DXCC Honor Roll. In the photo at right, Scot Herrick presents the Four Lakes Amateur Radio Club's Clyde "Coffee" Downing Memorial Ham of the Year to Gari Berloit, NG9V, honoring Gari's unwavering dedication to bettering Amateur Radio, and in particular for Gari's hard work with the FLARC Volunteer Examination Team for the past several years.

- Photos and story courtesy Steve Polishinski, WB9YSD

Service Rules Proposed for 220-222 MHz

The FCC has begun the rule-making process that will eventually lead to the expulsion of amateurs from 220 - 222 MHz. This latest release is aimed at setting up service rules for using this spectral parcel, and it is one of the steps that must occur before licenses can be issued.

The FCC is proposing to use a part of the band for trunking channels. Two hundred pairs of 5 KHz-wide pairs would be created, in keeping with the Commission's push to develop new narrowband communications technologies.

Other proposals include letting market forces determine how much spectrum will be utilized by various types of users, and one idea calls for setting up what the FCC says would be non-commercial channels. The Commission says that these would be reserved for use by licensees to meet their own internal communications needs.

Blocks of channels would also be set up and most would be available to non-commercial nationwide licensees. Nationwide commercial applicants like United Parcel Service would be awarded some of the other blocks. Even the government, currently under fire for hoarding spectrum, would be granted a part of the band for use all across the country.

Non-nationwide licensees would be given channel exclusivity for a 70 mile range, with licenses good for five years. The FCC also proposes that applications be granted on a first-come, first-awarded basis. The Commission adds that a lottery could be used, if needed.

This latest FCC action is independent of the legal challenges against the reallocation brought by both the Department of Justice (which has now withdrawn its petition; see the story below) and the American Radio Relay League. Many Washington observers feel that the Commission will simply re-affirm its original reallocation, if ordered to take another look at the matter by the appeals court. Most feel that for the FCC to do otherwise would mean a major loss of power and stature within the Washington political community.

- **Newsline**, KB4KCH, WA6ITF, N6BVU, in **The Westlink Report**, 12/22/89

220 APOSTASY?: The Department of Justice has withdrawn its petition to the appeals court over the 220-222 MHz reallocation issue. The DOJ had filed its legal objection on behalf of the National Communications System soon after the ARRL did to try to reverse the FCC's decision. Word from Washington is that it was forced to withdraw its petition with a legal conflict of interest rumored as the reason. (The DOJ might have had to defend the FCC against its own challenge.) This now leaves the League on its own to fight to retain the entire 220 band for amateur radio.

- **Westlink Report**, 01/05/90

Wisconsin Amateur, Broadcasting Pioneer, dies at 82

Phil Laeser, W9ECL, 82, a broadcast pioneer, communications innovator, and former manager of radio and television for The Journal Company in Milwaukee, died December 23 at his home in St. Petersburg, Florida.

In his years in broadcasting, Laeser proved himself a "whiz kid" who developed scores of innovations for the industry. His contributions include:

- * Designing a facsimile device that could transmit newspaper articles into homes. Similar machines were later used to transmit news photos.

- * Developing a radio transmitter during World War II that later was used in aircraft landing systems.

- * Creating a low-power knapsack transmitter that was a forerunner of walkie-talkies.

- * Experimenting with high-fidelity transmitters and video transmissions, which later led to the development of FM radio and television broadcasting.

In 1931, he began specializing in experimental work at WTMJ in Milwaukee. He built the mobile transmitter used by the station for the first golf tournament broadcast anywhere. He later helped develop the company's experimental TV station, W9XD, on top of the Schroeder Hotel in Milwaukee. Thanks to Laeser, Milwaukee's WTMJ-TV became the state's first television station, and the 11th in the country, in 1947. The station was

also one of the first three nationwide to originate local live color programming in 1966.

Laeser, who held several patents for FM radio and TV equipment, also helped WTMJ-FM (now WKTI/94.5 FM) to become the first FM station west of the Allegheny Mountains in 1940.

Laeser built his first crystal set at age 12, in his home town of Sun Prairie, WI. Four years later, he built his own amateur transmitting stations and became "one of the original radio hams," his son, Richard, of Reston, Virginia said. "Radio and the communication of information seemed to be in his bloodstream. The whole pioneering of radio and television in Milwaukee were really the focus of his career."

Even after retiring in 1972, Laeser remained active in broadcasting. A stroke in 1977 slowed him down, but he would still manage to get up each morning at 7 to chat with former colleagues around the country over his amateur radio, his son said.

Phil was very active on 20 meters, and stayed in touch with his Wisconsin friends up until December 20; his heart attack came three days later.

He is survived by his wife, Loretta, of St. Petersburg, and another son, Thomas, of Los Alamos, N.M.

- From newspaper obituaries and Ed Seruga, KE9JJ, Milwaukee

Eau Claire Amateur Radio Club

Carl Searing, W9NW
Secretary
1129 McKinley Road
Eau Claire, WI. 54703

MINUTES

MEETING OF 9 JANUARY, 1990

The meeting was opened by President Bill Jablonske, W9NNS, at 7:30 p.m. A roll call was held, the minutes of the last meeting read and approved, and the treasurer's report was given. This was tentative, due to the recent transfer of officers.

A request for communications help during the Eau Claire Ski Striders race at the Country Club on January 20 was read. Jerry Marx, NG9A, will coordinate. Those wishing to help may call Jerry at 878-4678.

VE exams will be held at the University maintenance building on January 13th.

Gale Sorum, WD9HFT, has started a

Ham Radio Magazine article data base, based on shareware from Jim Button, called PC-file+. To this end, he is looking for the following copies of Ham Radio: January, February, March, and June of 1976, and April of 1979. He would appreciate being contacted about this. His 'phone number is 715-723-3926.

There was a general discussion on the annual Eau Claire Hamfest. W9NNS said that many vendors have indicated interest. The flyers are nearly ready, and preliminary plans are proceeding on schedule.

The program consisted of a packet radio demonstration by W9NNS. He had brought a complete station, which worked very well, and which considerably aided his talk on the subject, which was very interesting and well received. The program was to have been on cellular telephones, by Jim Rassbach. It was cancelled due to Jim's sickness, and has been rescheduled for the February meeting.

Lunch committee for the February meeting: KB9R, KAØROS, and W9BAR.

C. Searing, W9NW

Secretary

Wisconsin Nets Association Ltd.

(Continued from page 4)

back on soon.

N9IAI is checking regularly, and bringing lots of traffic. K9KSA and N9BDL are heard several times each week. N9BDL has been filling in for WG9J as Friday NCS until she gets back on the air.

W9CBE was 9RN 23 times during the last quarter of 1989. W9YCV has the most times QNI with 79 for the last quarter, followed by W9UW with 77. These three are the dedicated ops who form the backbone of the net.

1988 TOTALS FOR THE YEAR	1989 TOTALS FOR THE YEAR
QNI 1663	QNI 1959
QTC 725	QTC 728
QSP 609 (84%)	QSP 486 (67%)
QTR 4426	QTR 3855

73, Ed

WISCONSIN NETS ASSOCIATION

On-The-Air Meeting
16 December 1989
1630Z - 1705Z

WNA Chairman WA9W called the WNA on-the-air meeting to order at 1630Z 12 December 1989. The Chairman asked the secretary to call the roll. The following members were present:

WB9YPY, WA9W, KA9KLZ, WG9J, K9FHI, K9ANV, N9BDL, N9FVN, WB9ICH, W9CBE, W9YCV, W9NGP, and NS9Q.

The Chairman then called for the reading of the previous meeting's minutes. KA9KLZ, WNA Secretary, read the minutes, and they were approved as read.

The Chairman then called for the treasurer's report. W9CBE, WNA Treasurer, gave the following report:

Previous balance \$155.48

DEBITS	
Picnic related	\$155.48
BSSS	\$33.60
Corp. filing fee	\$10.00
Total	\$199.08

CREDITS	
Picnic receipts	\$101.21
WNA Boosters	\$56.00
Total	\$157.20

Current balance - 12/16/89 \$178.09

The Treasurer's report was approved as read.

WNA REPORT: Greg, WA9W, WNA Chairman, gave the report. Greg called for suggestions for improving the WNA and the nets in general.

SM REPORT: W9YCV reported that Rich, K9GDF, could not attend, but sends seasons greetings to all.

STM REPORT: Dick, KC9CJ, was not present.

SEC REPORT: Fred, W9ZAG, or Sherm, W9NGT, Assistant-SEC, were not present.

BADGER WEATHER NET: Jim, WB9-YPY, gave the report in the absence of the Net Manager, KC9CJ. Jim said the net was doing well.

BADGER EMERGENCY NET: Greg, WA9W, BEN N/M, gave the report. Greg said that he desperately needs 9RN reps. The net is generally doing well, but traffic is down a little.

WISCONSIN SIDEBAND NET: Roy, K9-FHI, gave the report in the absence of Gene, K9UTQ, WBSN N/M. Roy said that the net was doing well, and that K9UTQ was presented a plaque at the fall QCWA meeting, honoring his 10 years service as STM.

WISCONSIN NOVICE NET: Lee, N9BDL, gave the report in the absence of Adrian, KA9FVX, WNN N/M or a delegate from WNN. Lee said that the Novice net was doing about the same.

WISCONSIN SLOW SPEED NET: Lee, N9BDL, WSSN N/M, gave the report. Lee said that there was nothing new to report, except that AG9G has not missed any more nets. Lee said that WSSN stats will be in BSSS.

WISCONSIN INTRASTATE NET/EARLY: Larry, WB9ICH, WIN/E N/M, gave the report. Larry said that traffic has been steady, but needs more QNIs to bring traffic to the SSB nets. Larry said he also needs 9RN reps, as only Monday and Wednesday are covered.

WISCONSIN INTRASTATE NET/LATE: Ed, W9NGP, WIN/L N/M, gave the report. Ed said that the net was still going, but needs more QNI. Ed wished ARL SIXTY ONE to everyone.

NORTH WOODS TRAFFIC NET: Mary, NS9Q, NWTN N/M gave the report. Mary said that the net was alive and well; checkins, traffic, and net time were all up. Thanks to all net members, net controls, and alternate net controls.

OLD BUSINESS

The Chairman called for old business, and there was no response.

NEW BUSINESS

The Chairman then called for new business. W9CBE read some excerpts from an article in December 1989 Worldradio. The subject of the article was "What a N/M Does".

K9FHI inquired about the picnic site for 1990. W9CBE said that Wood County Park now charges a \$50.00 fee for the use of the park, and perhaps we should look for an alternative site. K9ANV occurred. Roy inquired what the WNA dues are now. Roy also complimented Dwight, AG9G, on being an example of a good Ham Radio Operator.

K9FHI inquired where and when the next WNA meeting would be. The meeting was set for 10 March 90, if that date does not conflict with the WAR meeting.

There was no further business, so the Chairman adjourned the meeting at 1705Z, 16 December 1989.

Respectfully submitted,
Art Evans, KA9KLZ, WNA Secretary



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Wisconsin Amateur Packet Radio Association (WAPR)

c/o CARL SCHUMACHER, N9BYS
7740 EVERGREEN TERRACE
BURLINGTON, WI 53106

Steve Loeffler, WB9ZRE, Editor, 123 W. Oshkosh St., Ripon, WI 54971

Wisconsin BBS DIGI list

Call	Alias	City	State	Remarks
K9MLD-7	WIANT	Antigo	WI	Nord<>Link Node {145.01}
NOELB-1	WIBFD	Bayfield	WI	NetRom {145.01}
KA9JDE	BVD	Beaver Dam	WI	KA/NODE {145.03}
K9EP	BLT	Beloit	WI	KA/NODE {145.01}
KC9BK	BDR	Brown Deer	WI	MSYS BBS/Digi {145.69/223.42}
KC9BK-1		Brown Deer	WI	MSYS Keyboard Call of BBS
KC9BK-2		Brown Deer	WI	MSYS Forward Call of BBS
KC9BK-3		Brown Deer	WI	MSYS KA/Node
KC9BK-4	WIBDR	Brown Deer	WI	Net/Rom Node of MSYS BBS {145.69/223.42}
KC9BK-5		Brown Deer	WI	MSYS IP Call {44.92.1.14}
WD9DHI-8	#DHIB	Burlington	WI	Nord<>Link Node {446.10 4800 Baud}
N9BYS	BUR	Burlington	WI	MSYS BBS/Digi {145.09}
WD9HFT-1	WICHIP	Chippewa Falls	WI	Nord<>Link Node {145.01}
N9AW	CUD	Cudahy	WI	BBS/Digi {145.09}
WOAIIH-1	WIEAU	Eau Claire	WI	Nord<>Link Node {145.01}
W9NNS-1	WINNS	Eau Claire	WI	Converse Node {Hardwired to WIEAU}
WA9AJW	ELK	Elkhorn	WI	Digi/BBS {145.07}
W9EWD	MSN	Fitchburg	WI	Digi {145.07}
KA9VDU	FBG	Fitchburg	WI	Digi {145.07}
N9GBJ	#IPFBG	Fitchburg	WI	TCP/IP Mbox
AA9A		Freedom	WI	DX Cluster {223.48}
KB9OK-9	GTB	Germantown	WI	Message Board {145.69/145.09}
KB9OK-9	GTN	Germantown	WI	KA/Node Gateway {145.69/145.09}
KB9OK	GER	Germantown	WI	KA/Node/Gateway {145.03/145.69}
KB9OK-9	GTWN	Germantown	WI	Gateway/Digi {145.69/145.09}
KA9WPG	WPG	Green Bay	WI	PBBS {145.01}
K9JQE-1	GRB	Green Bay	WI	Nord<>Link Node {145.01}
K9JQE-2	NEW	Green Bay	WI	Nord<>Link Node {223.44}
KD9FC-1	WIHYR	Hayward	WI	Nord<>Link Node {145.01}
KD9JK-2	JVL	Janesville	WI	BBS/Digi {145.07}
WA9FIO-1	WILSE	La Crosse	WI	Nord<>Link Node {145.01}
WD9ESU-1		Lodi	WI	BBS {145.07}
WB9QHD-15	MAD	Madison	WI	Nord<>Link Node {145.01}
				WHole to MQTA
KD9UU	#IPPAT	Madison	WI	IP Switch/N-Rom Mbox/Gway 145.01/145.67
N9HAD-1		Madison	WI	KA-Node {145.07}
N9HAD-2	BOB	Madison	WI	KA-Node {145.07}
NX9K-9	WIBK22	Madison	WI	Nord<>Link Node & IP Switch {223.42}
W9WI-1		Madison	WI	MSYS BBS {145.01/145.07}
KB9NG	WST	Madison	WI	KA/NODE {145.07}
KB9WC-7	WIGLK	Markesan	WI	Nord<>Link {144.97}
KB9WC-8	#WIGLK	Markesan	WI	Nord<>Link {223.420}
N9GHZ-1	WIMED	Medford	WI	Nord<>Link Node {145.01}
AE9H	MILW	Milwaukee	WI	BBS/Digi {145.09}
WA9ZRL	ZRL	Muskego	WI	MSYS BBS/Digi {145.69}
WD9ANY	NWB	New Berlin	WI	MSYS BBS/Digi {145.09}
WD9ANY-1		New Berlin	WI	Keyboard call of MSYS BBS
WD9ANY-2		New Berlin	WI	Fwd call of MSYS BBS
WD9ANY-3		New Berlin	WI	KA/Node on MSYS BBS
WD9ANY-5		New Berlin	WI	TCP/IP Call on MSYS BBS [44.92.1.5]
WD9ANY-9	WINWB	New Berlin	WI	Nord<>Link Node {145.09}

WA9SOU-2	WINFR	North Freedom	WI	Net/Rom Node {145.01}
WA9KEC		North Prairie	WI	MSYS BBS {145.05/.09 223.42 446.100}
WA9KEC-1	NPBBS	North Prairie	WI	MSYS Node {145.05/.09 223.42 446.100}
WA9KEC-6		North Prairie	WI	Digi 145.09 <-> 145.05
WA9KEC-7		North Prairie	WI	Digi 145.09 <-> 223.42
WA9KEC-8		North Prairie	WI	Digi 145.05 <-> 223.42
WA9KEC-9		North Prairie	WI	Keyboard call of the MSYS BBS
WA9KEC-10		North Prairie	WI	TCP/IP via MSYS BBS [44.92.1.1]
N9CCI	ORD	Omro	WI	Digi {145.01}
WA9FIO-2	LSE2	Onalaska	WI	Nord/Link Node {145.09}
W9LZQ-1		Onalaska	WI	BBS {145.01/145.09}
NC9G-1	WIPKF	Park Falls	WI	Nord<>Link Node {145.01}
N9BQM	PIT	Pittsville	WI	KA/NODE {145.01}
NF9R-1	WISHE	Plymouth	WI	Net/Rom Node {145.01}
NF9R-2	#SHE2	Plymouth	WI	Net/Rom Node {223.48}
NF9R-3	#SHEB	Plymouth	WI	Net/Rom Node {446.100 4800 Baud}
KF9K		Racine	WI	DX Cluster {223.48}
W9ZBD-3	WIRHI	Rhineland	WI	Nord<>Link Node {145.01}
W9ZBD		Rhineland	WI	BBS {145.01/14.111}
N9FHH-1	WIRIE	Rice Lake	WI	Nord<>Link Node {145.01}
WB9ZRE-1		Ripon	WI	KA/NODE {144.97}
KR9S		Sheboygan	WI	DX Cluster {223.48}
WB9TYT-6	WICONV	Slinger	WI	Converse Node {Hardwired to Matrix}
WB9TYT-7	WISLG	Slinger	WI	Nord<>Link Node {145.69}
WB9TYT-8	#SLGB	Slinger	WI	Nord<>Link Node {446.100 4800 Baud}
WB9TYT-9	#SLG2	Slinger	WI	Nord<>Link Node {223.42}
WB9TYT-10	WIBS	Slinger	WI	Nord<>Link Node {221.07}
KD9NV	SPTL	Steven Point	WI	PBBS/Digi {145.09}
KD9NV	SPT	Stevens Point	WI	PBBS/Digi {145.01}
WB9QFW	WISTE	Stevens Point	WI	Net/Rom Node {145.01}
WB9YUY-1	WISTB	Sturgeon Bay	WI	Nord<>Link Node {145.01}
N9BOE-1	CMY	Tomah	WI	Nord<>Link Node {145.01}
N9CLE-2		Tomahawk	WI	KA/NODE {145.01}
AA9M		Viroqua	WI	Digi {145.01}
N9BKJ	WAP	Waupaca	WI	PBBS/Digi {145.01/144.97}
N9BKJ-7			WI	K-Node {145.01/144.97}
N9CLE-1	WIAUW	Wausau	WI	Net/Rom Node {145.01}
W9PY		Whitefish Bay	WI	Digi {145.03}
K9UTQ	WRP	Wisconsin Rapids	WI	Digi {145.01}

Please send all corrections/additions to Roy, WA9KEC @ WA9KEC
12/19/89

LISTEN TO THE NEW MICROSATS

As you have probably heard, six new amateur satellites were launched on schedule Sunday night, Jan.21 (about 01:36z on 1/22) following a one day delay because of bad weather at Kourou. With that launch we now have OSCAR-19 (and 14, 15, 16, 17 and 18) all in orbit.

All four Microsats (-16 thru -19) and both UoSATS (-14 and -15) have now all been brought to life and all indications are that everything is nominal.

Of the Microsats, three (PACSAT, LUSAT and WEBERSAT) are transmitting 1200BPS PSK packet telemetry in the 437 MHz range. LUSAT is also transmitting CW on 437.125 MHz.

The fourth Microsat, DOVE has a 2M downlink on 145.825 which later will be transmitting synthesized voice, but now it is sending ordinary 1200 BPS AFSK-FM packet telemetry which anyone can copy with a "stock" TNC and 2M FM radio -- no special equipment required! On the last pass I was even able to hear DOVE well on my HT with a rubber duckie when it was 2800 km away, about 5 degrees above the horizon. On the radio I normally use for the W3IWI PBBS, DOVE is as loud as many local area packet users. DOVE's 2 watt 2M xmtr puts out a potent signal!

All 6 spacecraft are in essentially the same sun synchronous orbit. In the northern hemisphere you will get two or three evening passes in a window centered on 10PM local time, and two or three morning passes centered on 11 AM local time -- all the passes you can hear will be between plus/minus two hours from these times.

So if you want to copy the packet signals from DOVE flying 800 km up, just crank your 2M FM rig to 145.825 and leave your TNC in the monitor mode. It will transmit for a couple of minutes and then stop for 30 seconds. To decode the telemetry from any of these satellites, watch the ALL@AMSAT packet bulletins distributed by AMSAT for more details.

And there's more to come -- the Japanese plan to launch OSCAR-20 next month, and astronaut Ron Parise, WA4SIR will have packet radio hardware onboard the next flight of the Shuttle Columbia (STS-35) in April.

If you are proud of these amateur achievements, please contact AMSAT for more information on how YOU can participate in these amateur space activities.

73 de Tom, W3IWI

DOVE packets on 145.825

Many people have reported the successful reception of the 2M packet signals from the new DOVE (OSCAR-17) satellite with equipment as simple as an HT with a rubber duckie hooked to a stock TNC.

Some observers have reported hearing terrestrial signals on the 145.825 MHz frequency. It does no good to send packets to DOVE -- there is no receiver on the spacecraft on the 145.825 frequency! Also, when you QSY to 145.825, please turn your TNC's beacon off (set cmd:BEACON EVERY 0) to avoid generating unintentional QRM.

All the new satellites are still being tested and operational flight software is being made ready. If you see the signal characteristics change, do not be alarmed.

When DOVE is made operational, it's primary task will be to send digitized voice for educational programs. The role of its packet capability in the operational mode is still to be determined -- your reports of successful reception of the packet signals with minimal equipment during this shake out period will help determine the future plans.

73 de Tom, W3IWI

GEARVAKF RESEARCH
Basis of no-code tape
from GEARVAKf Bulletin, Vol. 29, no.1
(via ARNS Bulletin)

Turlock, California--April 32, 1989 - In a surprise announcement that has completely rocked the foundation of the educational community, the Wet-Link C.B. Radio Network has prematurely introduced a new "No-Code C.W. Training Cassette"

which was developed using lack of research material supplied by the world famous Gorbinsky Learning and Forgetting Center of Ohio. This GEARVAKf-sponsored facility is the hub of GEARVAKf-funded research into "things."

In a 1955 report two decades before the center opened, its former Director of Research Into Things, Dr. R. U. Kidding, Ph.D. (phud), posed the question: "Why is the sky blue and what does this have to do with learning Morse Code?"

Using grant monies provide by the GEARVAKf Grant Monies Institute to Research Things Dr. Kidding attempted to contact the late Samuel F. B. Morse to ascertain the answer. By 1966, Dr. Kidding had discovered that Morse had been dead for several decades, and therefore was not a plausible source for garnering his information.

While Dr. Kidding never did learn why the sky is blue, his 1979 paper titled "To Code or Not To Code -- Is That a Question?" went unnoticed by the communications community for almost two decades, mainly because it was written in a VIC-20 computer, printed in 23 letter columns, and looked like a grocery list. The paper was resurrected about four days ago by the production staff at Wet-Link C.B. Radio as an excuse to put out a useless tape cassette to teach people No-Code at 0 W.P.M. Hosted by Niles East, the cassette is designed to instruct the listener and impart enough lack of knowledge so that he or she can easily pass the Morse Code portion of the FCC No-Code ham radio exam.

Since nobody in their right or left mind would buy such trash, the only way to get one is at the WESTLINE REPORT/220 NOTES booth at the AmateurRadioVention in Dayton Ohio. The tapes are almost free, but not quite. GEARVAKf members are advised to show their lack of ID cards while non-members need not. -WA6ITF

☐ Wisconsin Amateur Packet Radio

☐ Membership Application

Name: _____ Call: _____ Home Phone: _____

Address: _____ City: _____ State: _____ Zip: _____

Home BBS: _____ Monitor Freq.: _____ Hours of Operation: Day: ☐ Night: ☐ 24 Hour: ☐

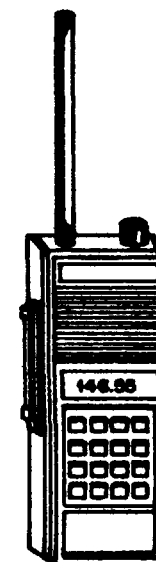
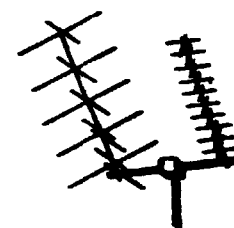
Station: Power: _____ Ant. Gain: _____ Height: _____ TNC: _____ Computer: _____

Station Capabilities: HF: ☐ 2M: ☐ 220 MHz: ☐ 440 MHz: ☐ Other: _____

I operate a Digipeater: ☐ Alias: _____ Packet BBS: ☐ Software Used: _____

Primary Interest in Packet: _____


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Yellow Thunder

Amateur Radio Club

K90DK
WB9FDZ



Art Kleefisch, W9WSS
Secretary
1014 5th Street
Baraboo, WI. 53913

The next meeting of the YTARC will be held on Wednesday, Feb. 14, in room 12 of the Baraboo Civic Center. The meeting will start at 7:30 PM. Following the meeting, Dennis Sweeney, Portage will present a program on Micro-Biology.

The January 16th 1990 meeting was a Informational Meeting on the Novice Classes scheduled to start Feb. 6th in room 12 of the Baraboo Civic Center. All those interested in starting in the Amateur Radio hobby were invited to attend this meeting. The "new World of Amateur Radio" video was shown to present an overview of the Amateur Radio Hobby. Several YTARC members outlined some of the details relating to the classes, and the test that must be passed to get the Novice Class license.

The following were present at this meeting:

Don Hudnell	Baraboo
Bill Hummel, KA9QJF	Baraboo
Linda Luck	Baraboo
George G. McArthur	Baraboo
Herbert J Pishion	Baraboo
Rick Plouffe	Baraboo
Steve Shultz	Baraboo
Christie S. McArthur	North Freedom
Gary Zaroon	Oxford
Chad Georgeson	Pardeeville
Chris Keppert	
Dennis Sweeney	Portage
Dennis Sweeney	Portage
Joey Sweeney	Portage
Lawrence Danner	Rick Springs

The following members and guests were also present:

Jim Decker	WB9UQT	Baraboo
Harry Mayland	K9FFT	Baraboo
Harry Westland	K9EHJ	Baraboo
Art Kleefisch	W9WSS	Baraboo
Jim Romelfanger	K9ZZ	Baraboo
Tom Luck	WB9BPS	Baraboo
Duane Grotophorst	KA9HKL	Loganville
Bill Klinkner		Prairie du Sac
Ann Klinkner		Prairie du Sac
Steve Schwoegler	WB9RNL	Wisconsin Dells

The business meeting was called to order at 9:30 PM. The minutes of the last meeting were accepted as published in BSSS. The Treasurers report was the same as the last meeting. There was short discussion of subjects for future meeting.

The Buck-nite winner was O. F. Warning, W9OXN, who was not present. Next meeting the prize will be \$4.00. The meeting was adjourned at 9:50 PM.

Art Kleefisch, Secretary

YTARC BIRTHDAZE

No YTARCers are celebrating their birthday this month, but we hope to have more new next month.

SENTENCE SERMON

God tempts us that we may rise, while the devil tempts us that we may fall.

--H. C. Trumbull

TESTPOINT

(continud from page 4)

MADISON WI - ARRL/VEC

February 24 - April 7 (MARA swapfest).

All exams will be held at Fire Station No. 2, 421 Grand Canyon Dr., with the exception of the April 7 date, which will be announced later.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Exams are given at the Red Cross Building, 4521 Taylor Avenue, Racine. Walkins are permitted. Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

Iomahawk, WI

Last Saturday of every month. Jan. thru Oct.

Iomahawk Volunteer Examiners (ARRL/VEC). Iomahawk, WI. No pre-registration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Greg Garner, WA9W, 4088 Highway 51, Harshaw, WI 54529. Telephone (715) 453-7096.

Loves Park, IL

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, 5006 N. Second St., Loves Park, IL 61111. (815) 877-6768.

MINNESOTA TESTS

February 24, 1990 - Midwinter Madness Hamfest

Hamel, MN - (Minneapolis area) - (ARRL/VEC)

Sponsored by Robbinsdale ARC. Contact: Dave Harrell, 8772 Greystone Ave., So. Cottage Grove, MN 55016. (612) 459-1647. Advance registration requested as walk-ins are very limited and are on a first come - first served basis.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.



SSB

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FOR SALE: Hallicrafters HI-33B 80-10 Amplifier, with extra final. Heathkit HA-10 Warrior Amplifier converted to mono-band 160 amplifier. Original tank in one piece to convert back. MFJ-989 3KW tuner. Jim Burcum, K9LBX, W6588 Flint St., Onalaska, WI 54650. (608) 783-1611.

FOR SALE: Xerox-II computer with dual 8" drives. Extra hardware, (motherboard, monitor, cables) and software (supercalc, Wordstar, utilities and 50+ disks). \$100.00. Tom Tomasi, KW9Q, 1176 Elmore St., Green Bay, WI (414) 499-2645

WANTED: Oscillator-Amplifier assembly, 650-P1, for General Radio type 650-A Impedance Bridge. Speaker with cabinet for Collins 75A3 receiver. Fred A. Linn, W9NZF, 5608 Edgewater Dr., Cedarburg, WI 53012. (414) 377-3280.

FOR SALE: National Receiver, NC-190, in good workig condition, \$60.00. 3 rack mount brackets and panels for Collins equipment, 30L1, KWM2A, and 312B5 or 312B3. HRO receiver, wih 5 coil sets, in good contition. \$150.00. NC-300 receive, wih speaker, and VHF converters for 6, 2, & 1-1/4 meters in matching National cabinet. \$200.00. This receiver is restored and in excellent condition. All equipment is in good shape, and photos are available upon request. I will pack and ship UPS, insured, the recipient to pay shipping charges. Satisfaction is guaranteed, and if problems arise, money back is assured upon receipt of the return shipment, prepaid. Fred A. Linn, W9NZF, 5608 Edgewater Dr., Cedarburg, WI 53012. (414) 377-3280.

ARRL BOARD MEETING

The 1990 Annual Meeting of the Boad of Directors of the ARRL was held Jan. 19-20. A few of the items of business covered were: Larry E. Price, W4RA, was re-elected as president of the ARRL for another 2 year term. ARRL dues will be changed to \$30.00 per year. A new section-level appointment of Section Training Coordinator has been created. 1990 has been declared to be the Year of the Amateur Satellite Program.

We will have more information next month.

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David Wright, WB9VOZ - Wausau

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